**Union Public Service Commission (UPSC)** 

# NDA & NA

**National Defence Academy & Naval Academy** 

# **GENERAL ABILITY TEST**

# **PART A : ENGLISH**

# &

**PART B : GENERAL KNOWLEDGE** 

# **Solved Papers**

**Chief Editor** A. K. Mahajan

**Compiled** NDA & NA Expert Group

**Computer Graphics by** Balkrishna, Charan Singh

Editorial Office 12, Church Lane Prayagraj-211002 § 9415650134

Email : yctap12@gmail.com website : www.yctbooks.com/www.yctfastbook.com/www.yctbooksprime.com © All rights reserved with Publisher

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### **UPSC NDA & NA Examination Syllabus 2023**

**NDA Exam Pattern 2023**: NDA exam is conducted by the Union Public Service Commission (UPSC) twice a year for admission to Army, Navy & Air Force wings of National Defence Academy and Indian Naval Academy courses. NDA exam pattern comprises written exam and SSB interview. The written exam consists of two papers, Mathematics and General Ability Test (GAT). The Mathematics paper carries 300 marks while the GAT paper carries 600 marks. The total marks for the NDA written exam are 900. The Mathematics questions are asked from topics covered in Class 12 level. The GAT paper includes questions from English, General Knowledge, and General Science.

#### NDA SCHEME OF EXAMINATION

1. The subjects of the written examination, the time allowed and the maximum marks allotted to each subject will be as follows-

Subject	Code	Duration	Maximum Marks
Mathematics	01	2.5 Hours	300
General Ability Test	02	2.5 Hours	600
Total Marks For Writt	en Exan	n	900
SSB Test/Interview :			900

 The Papers in All the subjects will consist of Objective Type Question only. The question papers (Test Booklets) of Paper
 I: Mathematics and Paper - II: General Ability Test will be set Bilingual in Hindi as well as English.

- **3.** In the question papers, wherever necessary, questions involving the metric system of Weights and Measures only will be set.
- **4.** Candidates must write the papers in their own hand. In no circumstances will they be allowed the help of a scribe to write answers for them.
- 5. The Commission have discretion to fix qualifying marks in any or all the subjects at the examination.
- 6. The candidates are not permitted to use calculator or Mathematical or logarithmic table for answering objective type papers (Test Booklets). They should not therefore, bring the same inside the Examination Hall. PAPER - II

#### General Ability Test Syllabus

The general ability section comprises of **two Parts** which are mentioned below:

#### Part – A : English

The question paper in English will be designed to test the candidate's understanding of English and workman like use of words. The syllabus covers various aspects like : Grammar and usage, vocabulary, comprehension and cohesion in extended text to test the candidate's proficiency in English.

#### Part – B : General Knowledge

The question paper on General Knowledge will broadly cover the subjects : Physics, Chemistry, General Science, Social Studies, Geography and Current Events. The syllabus given below is designed to indicate the scope of these subjects included in this paper. The topics mentioned are not to be regarded as exhaustive and questions on topics of similar nature not specifically mentioned in the syllabus may also be asked. Candidate's answers are expected to show their knowledge and intelligent understanding of the subject.

#### Section A – Physics

Physical Properties and States of Matter, Mass, Weight, Volume, Density and Specific Gravity, Principle of Archimedes, Pressure Barometer.

Motion of objects, Velocity and Acceleration, Newton's Laws of Motion, Force and Momentum, Parallelogram of Forces, Stability and Equilibrium of bodies, Gravitation, elementary ideas of work, Power and Energy. Effects of Heat, Measurement of Temperature and Heat, change of State and Latent Heat, Modes of transference of Heat. Sound waves and their properties, Simple musical instruments. Rectilinear propagation of Light, Reflection and refraction. Spherical mirrors and Lenses, Human Eye.

Natural and Artificial Magnets, Properties of a Magnet, Earth as a Magnet.

Static and Current Electricity, conductors and Non- conductors, Ohm's Law, Simple Electrical Circuits, Heating, Lighting and Magnetic effects of Current, Measurement of Electrical Power, Primary and Secondary Cells, Use of X-Rays. General Principles in the working of the following:

Simple Pendulum, Simple Pulleys, Siphon, Levers, Balloon, Pumps, Hydrometer, Pressure Cooker, Thermos Flask, Gramophone, Telegraphs, Telephone, Periscope, Telescope, Microscope, Mariner's Compass; Lightening Conductors, Safety Fuses.

#### Section B – Chemistry

Physical and Chemical changes. Elements, Mixtures and Compounds, Symbols, Formulae and simple Chemical Equations, Law of Chemical Combination (excluding problems). Properties of Air and Water.

Preparation and Properties of Hydrogen, Oxygen, Nitrogen and Carbondioxide, Oxidation and Reduction. Acids, bases and salts. Carbon—different forms. Fertilizers—Natural and Artificial. Material used in the preparation of substances like Soap, Glass, Ink, Paper, Cement, Paints, Safety Matches and Gun- Powder. Elementary ideas about the structure of Atom, Atomic Equivalent and Molecular Weights, Valency.s

#### Section C – General Science

Difference between the living and non-living. Basis of Life— Cells, Protoplasms and Tissues. Growth and Reproduction in Plants and Animals.

Elementary knowledge of Human Body and its important organs. Common Epidemics, their causes and prevention.

Food—Source of Energy for man. Constituents of food, Balanced Diet. The Solar System—Meteors and Comets, Eclipses. Achievements of Eminent Scientists.

#### Section D – History, Freedom Movements etc.

A broad survey of Indian History, with emphasis on Culture and Civilisation.

Freedom Movement in India. Elementary study of Indian Constitution and Administration. Elementary knowledge of Five Year Plans of India. Panchayati Raj, Co-operatives and Community Development. Bhoodan, Sarvodaya, National Integration and Welfare State, Basic Teachings of Mahatma Gandhi.

Forces shaping the modern world; Renaissance, Exploration and Discovery; War of American Independence. French Revolution, Industrial Revolution and Russian Revolution. Impact of Science and Technology on Society. Concept of one World, United Nations, Panchsheel, Democracy, Socialism and Communism. Role of India in the present world.

#### Section E – Geography

The Earth, its shape and size. Lattitudes and Longitudes, Concept of time. International Date Line. Movements of Earth and their effects. Origin of Earth. Rocks and their Weathering—Mechanical and classification; Chemical, Earthquakes and Volcanoes. Ocean Currents and Tides and its composition; Atmosphere Temperature and Atmospheric Pressure, Planetary Winds, Cyclones and Anticyclones; Humidity; Condensation and Precipitation; Types of Climate, Major Natural regions of the World. Regional Geography of India—Climate, Natural vegetation. Mineral and Power resources; location and distribution of agricultural and Industrial activities. Important Sea ports and main sea, land and air routes of India. Main items of Imports and Exports of India.

**Section F – Current Events** 

Knowledge of Important events that have happened in India in the recent years. Current important world events. Prominent personalities—both Indian and International including those connected with cultural activities and sports.

**NOTE**: Out of maximum marks assigned to part 'B' of this paper, questions on Sections 'A', 'B', 'C', 'D', 'E' and 'F' will carry approximately 25%, 15%, 10%, 20%, 20% and 10% weightages respectively.

### UPSC NDA & NA General Ability Test (GAT) EXAMINATION PAPER ANALYSIS CHART

S. No.	Examination Question Paper	Exam Date/Year	No. of Questions Part A & B
1.	UPSC NDA & NA General Ability Test 2008 (I)	20.04.2008	50+100 = 150
2.	UPSC NDA & NA General Ability Test 2008 (II)	17.08.2008	50+100 = 150
3.	UPSC NDA & NA General Ability Test 2009 (I)	19.04.2009	50+100 = 150
4.	UPSC NDA & NA General Ability Test 2009 (II)	30.08.2009	50+100 = 150
5.	UPSC NDA & NA General Ability Test 2010 (I)	18.04.2010	50+100 = 150
6.	UPSC NDA & NA General Ability Test 2010 (I & II)	10.08.2010	50+100 = 150
7.	UPSC NDA & NA General Ability Test 2011 (I)	17.04.2011	50+100 = 150
8.	UPSC NDA & NA General Ability Test 2011 (II)	21.08.2011	50+100 = 150
9.	UPSC NDA & NA General Ability Test 2012 (I)	15.04.2012	50+100 = 150
10.	UPSC NDA & NA General Ability Test 2012 (II)	19.08.2012	50+100 = 150
11.	UPSC NDA & NA General Ability Test 2013 (I)	14.04.2013	50+100 = 150
12.	UPSC NDA & NA General Ability Test 2013 (II)	11.08.2013	50+100 = 150
13.	UPSC NDA & NA General Ability Test 2014 (I)	20.04.2014	50+100 = 150
14.	UPSC NDA & NA General Ability Test 2014 (II)	28.09.2014	50+100 = 150
15.	UPSC NDA & NA General Ability Test 2015 (I)	19.04.2015	50+100 = 150
16.	UPSC NDA & NA General Ability Test 2015 (II)	27.09.2015	50+100 = 150
17.	UPSC NDA & NA General Ability Test 2016 (I)	17.04.2016	50+100 = 150
18.	UPSC NDA & NA General Ability Test 2016 (II)	18.09.2016	50+100 = 150
19.	UPSC NDA & NA General Ability Test 2017 (I)	23.04.2017	50+100 = 150
20.	UPSC NDA & NA General Ability Test 2017 (II)	10.09.2017	50+100 = 150
21.	UPSC NDA & NA General Ability Test 2018 (I)	22.04.2018	50+100 = 150
22.	UPSC NDA & NA General Ability Test 2018 (II)	09.09.2018	50+100 = 150
23.	UPSC NDA & NA General Ability Test 2019 (I)	21.04.2019	50+100 = 150
24.	UPSC NDA & NA General Ability Test 2019 (II)	17.11.2019	50+100 = 150
25.	UPSC NDA & NA General Ability Test 2020 (I & II)	19.04.2020	50+100 = 150
26.	UPSC NDA & NA General Ability Test 2021 (I)	18.04.2021	50+100 = 150
27.	UPSC NDA & NA General Ability Test 2021 (II)	05.09.2021	50+100 = 150
28.	UPSC NDA & NA General Ability Test 2022 (I)	10.04.2022	50+100 = 150
29.	UPSC NDA & NA General Ability Test 2022 (II)	04.09.2022	50+100 = 150
30.	UPSC NDA & NA General Ability Test 2023 (I)	16.04.2023	50+100 = 150
31.	UPSC NDA & NA General Ability Test 2023 (II)	04.09.2023	50+100 = 150
32.	UPSC NDA & NA General Ability Test 2024 (I)	22.04.2024	50+100 = 150
33.	UPSC NDA & NA General Ability Test 2024 (II)	02.09.2024	50+100 = 150
		Total No. of Que	stions 4950

# Union Public Service Commission NDA & NA 2008 (I) National Defence Academy & Naval Academy General Ability Test (GAT)

Solved Paper with Detailed Explanation Exam Date: 20.04.2008

Antonyms(a) Mild(b) Showing no concern forDirections (For the next 8 items):(a) Mild(b) Showing no concern forEach of the following eight items consists of a word or a group of words. Select the word of words that is most nearly opposite in meaning to the word or the group of words in capital letters.(a) Nearby1.SINGULAR (a) Nearby(b) Ordinary (c) Wide(d) Modern(a) Nearby(b) Ordinary (c) Wide(d) ModernAns. (b) : The word 'Singular' means normal, not unusal or different from others. Meaning of other options- (i) Midern means of the present or recent times.(a) Dry2.RECLUSE (a) Criminal (b) Wise (c) Gregarious(d) TimidAns. (c) : The word 'Recluse' means a person who lives alone and who maintains very little contact with other people or sociable.(d) TimidAns. (c) : The word 'Recluse' means a person who lives alone and who maintains very little contact with other people or sociable.(b) Honest (c) Verbose(i) Dimid means easily frightened, shy, afraid.3. BE NO SLOUCH (a) Inefficient (b) Honest (c) Saintly(d) Well-known	Section : English	5. SOLICITOUS
<ul> <li>(c) Grateful (d) Cheerful</li> <li>Ans. (b) : The word 'Solicitous' means showing a lot of concern, showing care and helpful attention to someone so, from the given option its antonym is 'showing no concern, showing care and helpful attention to someone So, from the given option its antonym is 'showing no concern, showing care and helpful attention to someone So, from the given option its antonym is 'showing no concern for'.</li> <li>Ans. (b) : The word 'Singular' means unusual or talking about one person or thing only. So, from the given option, its antonym is 'ordinary' means normal, not unusal or different from others. Meaning of other options-i) Nearby means not far away in distance.</li> <li>Modern means of the present or recent times.</li> <li><b>2.</b> RECLUSE         <ul> <li>(a) Criminal (b) Wise</li> <li>(c) Gregarious (d) Timid</li> </ul> </li> <li>Ans. (c) : The word 'Recluse' means a person who lives alone and who maintains very little contact with other people or society. So, from the given option, its antonym is 'Gregarious' means enjoying the company of ther people or sociable.</li> <li>Meaning of other options-         <ul> <li>(i) Wise means having the knowledge or experience or intelligent.</li> <li>(ii) Timid means easily frightened, shy, afraid.</li> <li><b>3.</b> BE NO SLOUCH                 <ul> <li>(a) Inefficient (b) Honest (c) Saintly</li> <li>(b) Well-known</li> <li>(c) Saintly</li> <li>(d) Well-known</li> <li>(e) Saintly</li> <li>(d) Well-known</li> <li>(e) Saintly</li> <li>(f) Wise means looking bad tempered and not wanting to speak to people.</li> <li>(i) Saintly</li> <li>(ii) Wise means looking bad tempered and not wanting to speak to people.</li> <li>(iii) Cheerful means lo</li></ul></li></ul></li></ul>	0	(a) Mild (b) Showing no concern for
<ul> <li>Each of the following eight items consists of a word or a group of words in capital letters, followed by four words in capital letters, followed by four words in capital letters, followed by four words in capital letters.</li> <li><b>1.</b> SINGULAR <ul> <li>(a) Nearby</li> <li>(b) Ordinary</li> <li>(c) Wide</li> <li>(d) Modern</li> </ul> </li> <li>Ans. (b) : The word 'Solicitous' means showing a lot of concern, showing care and helpful attention to someone So, from the given option its antonym is 'showing no concern for'. Meaning of other options-</li> <li>(c) Wide</li> <li>(d) Modern</li> </ul> <li>Ans. (b) : The word 'Singular' means unusual or talking about one person or thing only. So, from the given option, its antonym is 'ordinary' means normal, not unusal or different from others. Meaning of other options-</li> <li>(i) Nearby means not far away in distance.</li> <li>(ii) Modern means of the present or recent times.</li> <li><b>2. RECLUSE</b> <ul> <li>(a) Criminal</li> <li>(b) Wise</li> <li>(c) Gregarious</li> <li>(d) Timid</li> </ul> </li> <li>Ans. (c) : The word 'Recluse' means a person who lives alone and who maintains very little contact with other people or society. So, from the given option, its antonym is 'Gregarious' means enjoying the company other people or sociable.</li> <li>Meaning of other options-</li> <li>(i) Wise means having the knowledge or experience or intelligent.</li> <li>(ii) Timid means easily frightened, shy, afraid.</li> <li><b>3. BE NOS LOUCH</b> <ul> <li>(a) Inefficient</li> <li>(b) Honest</li> <li>(c) Saintly</li> <li>(d) Well-known</li> </ul> </li>		
<ul> <li>group of words in capital letters, followed by four words or group of words. Select the word of words that is most nearly opposite in meaning to the word or the group of words. Select the word of words that is most nearly opposite in meaning to the word or the group of words. Select the word of words that is most nearly opposite in meaning to the word or the group of words. Select the word of words that is most nearly opposite in meaning to the word or the group of words. Select the word of words that is most nearly opposite in meaning to the word or the group of words. Select the word of words that is most nearly opposite in meaning to the word or the group of words. Select the word of the group of words. Select the word of words in capital letters.</li> <li><b>1.</b> SINGULAR <ul> <li>(a) Nearby</li> <li>(b) Ordinary</li> <li>(c) Wide</li> <li>(d) Modern</li> </ul> </li> <li>Ans. (b): The word 'Singular' means normal, not unusal or different from others. Meaning of other options-</li> <li>(i) Modern means of the present or recent times.</li> </ul> <li><b>2. RECLUSE</b> <ul> <li>(a) Criminal</li> <li>(b) Wise</li> <li>(c) Gregarious</li> <li>(d) Timid</li> </ul> </li> <li><b>Ans.</b> (c): The word 'Recluse' means a person who lives alone and who maintains very little contact with other people or society. So, from the given option, its antonym is 'Gregarious' means enjoying the company of other popins-</li> <li>(i) Wise means having the knowledge or experience or intelligent.</li> <li>(ii) Timid means easily frightened, shy, afraid.</li> <b>3. BE NO SLOUCH</b> <ul> <li>(a) Inefficient</li> <li>(b) Honest</li> <li>(c) Saintly</li> <li>(d) Well-known</li> </ul> (b) Honest <ul> <li>(c) Saintly</li> <li>(d) Well-known</li> </ul>		<b>Ans.</b> (b) : The word 'Solicitous' means showing a lot of
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<ul> <li>words in capital letters.</li> <li><b>SINGULAR</b> <ul> <li>(a) Nearby</li> <li>(b) Ordinary</li> <li>(c) Wide</li> <li>(d) Modern</li> </ul> </li> <li>Ans. (b) : The word 'Singular' means unusual or talking about one person or thing only. So, from the given option, its antonym is 'ordinary' means normal, not unusal or different from others. Meaning of other options-</li> <li>i) Nearby means not far away in distance.</li> <li>ii) Modern means of the present or recent times.</li> </ul> <li><b>2. RECLUSE</b> <ul> <li>(a) Criminal</li> <li>(b) Wise</li> <li>(c) Gregarious</li> <li>(d) Timid</li> </ul> </li> <li><b>Ans.</b> (c) : The word 'Recluse' means a person who lives alone and who maintains very little contact with other people or society. So, from the given option, its antonym is 'Gregarious' means enjoying the company of other options-</li> <li>(i) Wise means having the knowledge or experience or intelligent.</li> <li>(ii) Timid means easily frightened, shy, afraid.</li> Meaning of other options- <ul> <li>(i) Wise means having the knowledge or experience or intelligent.</li> <li>(ii) Timid means easily frightened, shy, afraid.</li> </ul> Man. (c) : The word 'Laconic' means using a few words to say something. From the given option, its antonym is 'Verbose' which means that using or containing more words. <ul> <li>(i) Sullen means looking bad tempered and not wanting to speak to people.</li> </ul>		
<ol> <li>SINGULAR         <ul> <li>(a) Nearby</li> <li>(b) Ordinary</li> <li>(c) Wide</li> <li>(d) Modern</li> </ul> </li> <li>Ans. (b) : The word 'Singular' means unusual or talking about one person or thing only. So, from the given option, its antonym is 'ordinary' means normal, not unusal or different from others. Meaning of other options-             <ul> <li>(a) Criminal</li> <li>(b) Wise</li> <li>(c) Gregarious</li> <li>(d) Timid</li> </ul> </li> <li>Ans. (c) : The word 'Recluse' means a person who lives alone and who maintains very little contact with other people or sociable. Meaning of other options-             <ul> <li>(i) Wise means having the knowledge or experience or intelligent.</li> <li>(i) Wise means having the knowledge or experience or intelligent.</li> <li>(a) Inefficient</li> <li>(b) Honest</li> <li>(c) Saintly</li> <li>(d) Well-known</li> </ul> </li> <li>Inefficient</li> <li>(b) Honest</li> <li>(c) Saintly</li> <li>(d) Well-known</li> </ol>		Meaning of other options-
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(c) Saintly (d) Well-known to speak to people.	3. BE NO SLOUCH	words. Meaning of other words-
	(a) Inefficient (b) Honest	(i) Sullen means looking bad tempered and not wanting
	(c) Saintly (d) Well-known	to speak to people.
<b>Ans.</b> (a) : The word 'Be No Slouch' means someone [1](11) Handsome means (used about a man) attractive.	Ans. (a) : The word 'Be No Slouch' means someone	(ii) Handsome means (used about a man) attractive.
very hardworking. From the given option, its antonym 8. SLOTHFUL		8. SLOTHFUL
is 'Inefficient' which means not hard working or (a) Credulous (b) Highly skilled	is 'Inefficient' which means not hard working or	
producing result in the best way.		
Meaning of <u>Other</u> options-	e 1	<b>Ans.</b> (d) The word 'Slothful' means lazy. From the given
(1) Sainuy means very nois or virtuous.		option its antonym is "Sprightly which means that full
	(ii) Well known means known by a lot of people : famous.	of energy and spirit to be happy and to have a positive
4. <b>OPPROBRIUM</b>	4. OPPROBRIUM	
(a) Very easy (b) Suspenseful Meaning of other options-	(a) Very easy (b) Suspenseful	
	(c) Modern (d) Praise	(i) Credulous means believing people and easily tricked
Ans. (d) : The word 'Opprobrium' means severe or cheat.	Ans. (d) : The word 'Opprobrium' means severe	
criticism and blame. From the given option, its antonym Synonyms		
is 'Project' which means to say that somehody Synonyms		• •
/something is good and should be admired		
Each of the following eight items consists of a word in		Each of the following eight items consists of a word in
Capital features, followed by four words of gloup of words		capital letters, followed by four words or group of words.
uncertainty about what may happen.		Select the word of words that is most similar in meaning to the word in capital letters

9. DELECTATION	Ans. (d) : The group of words Happening at the
(a) Enjoyment (b) Envy	sametime is the correct synonym of 'Contemporanepus.
(c) Inspiration (d) Astuteness	Both words having same mean.
<b>Ans. (a) :</b> The word 'Enjoyment' is the correct synonym	15. STRAFE
of 'delectation'. Both words mean pleasure and delight.	(a) To punish (b) To strengthen
Meaning of other options-	(c) To run away (d) To work very hard
(i) Envy means Jealousy.	Ans. (a) : The word 'to punish' is the correct synonym
(ii) Inspiration means the act of influencing or	of 'Strafe'. Both words means to attack.
suggestion opinions, motivation.	16. EXACTION
(iii) Astuteness means someone who is able to	(a) Accuracy
accurately assess a situation.	(b) Left over portion
10. FACTITIOUS	(c) Act of demanding strictly
(a) Humorous (b) Truthful	(d) Ignorance
(c) Artificial (d) Causing fatigue	Ans. (c) : The group of words 'Act of demanding
Ans. (c) : The word 'Artifical' is the correct synonym of	strictly is the correct synonym of 'exaction'. Both words
'Factitious'. Both words mean artificially created or	mean the action of demanding and obtaining something
developed. Meaning of other options-	from someone. Meaning of other options.
(i) Humorous means funny or making you laugh.]	(i) Ignorance means a lack of knowledge or
(ii) Truthful means (Used about a person) who tells the	information.
truth; honest	Spotting Errors
(iii) Causing fatigue means reason of fatigue.	Directions (for the next 7 items):
11. MODICUM	(i) In this section a number of sentences are given.
(a) Basic	The sentences are underlined in three separate
(b) Pertaining to earlier times	parts and each one is labelled (a), (b) and (c). Read each sentence to findout whether there is an
(c) Small quantity	eror in any underlined part. No sentence has more
(d) Annoying weather	than one error. When you find an error in any one
Ans. (c) : The word 'Small quantity' is the correct	of the underlined parts (a), (b) or (c), indicate your
synonym of 'modicum'. Both words having same mean.	responsible on the separate answer sheet at the
Meaning of other options-	appropriate space. You may feel that there is no
(i) Basic means forming an essential foundation or	error in a sentence. In that case (d) will signify a
starting point, fundamental.	'No error' response.
(ii) Pertaining to earlier times means related to ancient	(ii) You are to indicate only one response for each item in your answer sheet. (If you indicate more
time.	than one response, your answer will be considered
<b>12. EXACERBATE</b>	wrong). Errors may be in grammar, word usage or
(a) To make something more severe	idioms. There may be a word missing or there
(b) To cause artificial shortage	may be a word which should be removed.
(c) To assume false importance	(iii) You are not required to correct the error. You are
(d) To flatter	required only to indicate your response on the
Ans. (a) : The words to make something more severe is	Answer sheet.
the correct synonym of group of 'Exacerbate'. Both	Examples 'P' and 'Q' have been solved for you.
words having same mean. Meaning of other options-	P. The young child/(a) signed/(b) a very sweet song/(c) No error/(d)
(i) To flatter mean to give pleasure or honour to	Q. We worked/(a) very hard/ (b) throughout the
somebody or compliment.	season/(c) No error/(d)
13. HIATUS	Explanation:
(a) Uphill task (b) Distant place	In item <b>P</b> , the word 'signed' is wrong. The letter under
(c) Fading memory (d) Gap	this part is (b); so (b) is the correct answer. Similarly, for
Ans. (d) : The word 'Gap' is the correct synonym of	item $\mathbf{Q}$ , (d) is the correct answer, as the sentence does
'Hiatus'. Both words mean a short pause in which nothing happen. Meaning of other options-	not contain any error.
(i) Uphill task means something that is very difficult to	17.
do and needs a lot of effort.	(a) Some women admit that
(ii) Fading memory means to lose freshness strength or	(b) their principle goal in life
vitality of memory.	(c) is to marry a wealthy man
14. CONTEMPORANEOUS	(d) No error
(a) Irritating	Ans. (b) There is an error in clause (b) of the given
(b) Artificial	sentence. 'Principal' be used instead of 'Principle'
(c) A very complicated problem	because it describes the specialty of the noun 'goal'
(d) Happening at the same time	used in sentence. So, we used (Adjecive) principal.
(a) mappening at the sume time	

18.
(a) Take two spoonfuls (b) of this medicine
(c) every three hours (d) No error
Ans. (a) : There is an error in clause (a) of the sentence.
'Spoonful' will be used in place of 'spoonfuls' because
in this sentence subject will be in plural form.
19.
<ul><li>(a) The film was so disjointed</li><li>(b) that I could not tell you</li></ul>
(c) what the story was about
(d) No error
<b>Ans.</b> (b) There is an error in clause (b) of the sentence.
Here 'Narrate' will be used in place of 'tell'. Because
narrate is used to tell a story.
20.
(a) He had been
(b) saved of death as if
(c) by divine intervention
(d) No error
Ans. (b) : There is an error in clause of the sentence.
Here 'of' need to be replaced with 'from'.
21. (c) A support support
(a) A cogent remark
<ul><li>(b) compels acceptance because</li><li>(c) of their sense and logic</li></ul>
(d) No error
<b>Ans.</b> (c) : There is an error in clause (c) of the sentence.
Here 'its' will be used in place of 'there'. Because there
is used as the possessive of the pronoun they, while
possessive 'its' is used for a non living subject.
22.
(a) Credit cards have
(b) brought about a revolution
(c) in people's spending habits
(d) No error
Ans. (d) There is no error in the given sentence.
23. (c) In Grandial methods
(a) In financial matters (b) It is important to
<ul><li>(b) It is important to</li><li>(c) get disinterested advice</li></ul>
(d) No error
<b>Ans.</b> (d) : There is no error in the given sentence.
Comprehension
Directions (For the next 10 items):
In this section you have three short passages. After each
passage, you will find some questions based on the
passage. First, read the passage and then answer the
questions based on it. You are required to select your
answers based on the contents of the passage and opinion
of the author only.
Examples 'I' and 'J' are solved for you.
Passage (Example)
In our approach to life, be it pragmatic or otherwise, a basic fact that confronts us squarely and unmistakably is

(b) different levels of existence are possible in<br/>nature(c) peace and security are the chief goals of all<br/>living beings(d) even the weakest creature struggles to<br/>preserve its lifeJ.Which one of the following assumptions or steps<br/>is according to a statistical according

I.

not to die, so do all other creatures.

The author's main point is that

is essential in developing the author's position?(a) All forms of life have a single overriding goal

whether they belong to the higher groups such as human beings or to the lower groups such as animals, all being primarily seek peace, comfort and security. Life is as dear to a mute creature as it is to a man. Even the lowliest insect strives for protection against dangers that threaten its life. Just as each one of us wants to live and

(a) different forms of life are found on earth

- (b) The will to survive of a creature is identified with a desire for peace
- (c) All beings are divided into higher and lower groups
- (d) A parallel is drawn between happiness and life and pain and death

#### **Explanation:**

I.

J.

- The idea which represents the author's main point is "peace and security are the chief goals of all living beings", which is response (c). So (c) is the correct answer.
- The best assumption underlying the passage is "The will to survive of a creature is identified with a desire for peace", which is response (b). So (b) is the correct answer.

#### Passage-I

For more than 3 decades, I achieved great success as a lawyer, till a stroke left by right side totally paralysed. Despite the doctor's encouragement, I was consumed by rage and self-pity. I yearned to be active again. But what could be a middle-aged cripple like me do? One day, glancing at some paintings I owned, I thought suddenly, "What about painting"? In fact, I had always wanted to paint, but had never had the time. Now, I had plenty of time. In the last 25 years, I have completed 300 paintings - one of them appeared on the cover of the Reader's Digest. The stroke, I realize, has helped me develop a latent talent and enjoy life.

- 24. Which one of the following is the correct statement?
  - While in the hospital, the author was
  - (a) angry with himself for falling ill
  - (b) relieved at the successful treatment
  - (c) frustrated at his helpless situation
  - (d) resentful at being hospitalized

Ans.	(c)	:	Acco	ording	to	the	passa	ge	option	(	c)
				pless s							
	<b>TT</b> 71							10			~

- 25. Why did the author consider himself a cripple?
  - (a) He could not go back to work
  - (b) He could not longer use his right hand
  - (c) He could not use his time properly
  - (d) He could not lead an active life

the desire for peace, security and happiness. Different

forms of life at different levels of existence make up the

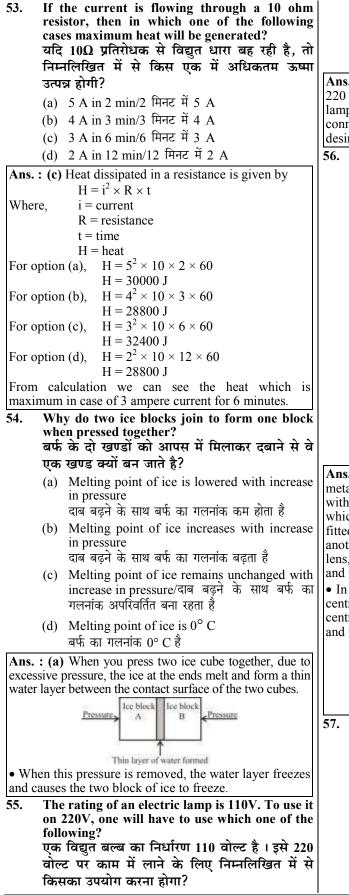
teeming denizens of this earth of ours. And, no matter

Ans. (d) : According to the passage option (d) "He could	arm, I brought him out of water in a way that he might not
not lead an active life" is correct.	hinder me from swimming safely. The boy was saved which won me great applause from the people. I had
26. Which one of the following is the correct statement?	jumped into the water without any fear or hesitation as I
The paralytic stroke helped the author	knew the art of saving drowning persons. I had already
(a) to face challenges in life successfully	saved a few lives from drowning.
(b) to realize his latent talent	<b>30.</b> Why did Swarn jump into the water carrying
(c) to learn a new hobby	Mohan on his shoulders?
(d) to earn more money	(a) Mohan had insisted to swim
Ans. (b) : According to the passage option (b) "to	(b) He wanted to enjoy the fun of seeing a drowning man
realize his latent talent " is correct statement.	(c) He simply wanted to drown him in the river
Passage-II	(d) Swarn felt that his friend should also enjoy
"Westward Ho!" we should as the sail of our crudely	the fun of swimming in the river
constructed raft, the Kon-Tiki caught the wind. The sail	Ans. (d) : According to the passage option (d) is
quickly filled and the Kon-Tiki began to move. The six of us were off to our great adventure.	correct answer.
As night fell, the troughs of the sea grew gradually	31. Why did Swarn leave his friend Mohan in the
deeper and our first duel with the elements began. Each	waters?
time we heard the sudden deafening hiss of a roller	(a) Mohan wanted to learn how to swim
closely and saw a white crest come towards us out of the	(b) He wanted Mohan to learn how to swim
darkness, we held on tight and waited for the worst. But	(c) Because he was sure that Mohan would be able to swim across the river
invariably the Kon-Tiki calmly swung up her stern and rose skyward unperturbed.	(d) Because he found it difficult to swim in the
27. What does the word 'duel' in the passage	river with his friend on his shoulders
mean?	Ans. (d) : According to the passage option (d) is
(a) A battle (b) A fortification	correct answer.
(c) A two-side contest (d) Divided in two	<b>32.</b> Although there were many swimmers, why did
Ans. (a) : According to the passage 'duel' means	nobody come forward to save the drowning
fighting between them. Hence option (a) "A battle" is	boy?
correct.	(a) They wanted some financial reward
28. When big waves struck the raft the six people	(b) They did not know the art of saving a drowning person
in it- (a) started crying	(c) They were not experts in the art of swimming
(b) showed courage and patience	(d) The river was very deep and they did not
(c) acted in a rash manner	want to take a risk for a stranger
(d) showed passiveness	Ans. (d) : According to the passage option (d) is
Ans. (d) : According to the passage option (d) "	correct answer.
showed passiveness" is correct answer.	<b>33.</b> Why did the writer jump into the river without
29. How was the Kon-Tiki's performance on the	any fear or hesitation?
high seas?	<ul><li>(a) He was acquainted with Mohan</li><li>(b) He could not bear the sight of a drowning person</li></ul>
(a) Very shaky (b) Extremely poor	(c) He knew how to save a drowning person
(c) Stable and resolute (d) Unpredictable	(d) He was called by the people present there
<b>Ans. (c) :</b> According to the passage option (c) "Stable and resolute" is correct answer.	<b>Ans. (c) :</b> According to the passage option (c) is correct
	answer.
<b>Passage-III</b> It was Sunday. As usual, there was a great rush of merry	Ordering of words in a sentence
makers who had come to the river to swim or to bathe.	Directions (for the next 8 items):
Those who knew how to swim were jumping into the	In the following items, some parts of the sentence have
water from the high bridge or the banks of the deep river.	been jumbled up. You are required to re-arrange these
Mohan did not know how to swim so he was merely	parts which are labelled P, Q, R and S to produce the
watching others who were enjoying the fun of swimming.	correct sentence. Choose the proper sequence and mark in your Answer Sheet accordingly.
However on the insistence of his friend Swarn, he sat on his shoulders and both jumped into the water. Unable to	<b>Example 'Z' has been solved for you.</b>
carry Mohan along, Swarn left him in the flowing water.	<b>Z.</b> It is well-known that the effect /(P) is very bad/
Mohan shouted for help. There were so many swimmers	(Q) on children/(R) of cinema/(S)
but nobody came to his rescue since they were indifferent	Which one of the following is the correct
to the plight of a stranger. I had just reached there, so I	sequence?
was in my full dress. Without undressing I jumped into the	(a) P-S-R-Q (b) S-P-Q-R
river and swam up to the drowning boy. Holding his left	(c) S-R-P-Q (d) Q-S-R-P
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Explanation:	Ans. (d) : The correct sequence of above sentences is-
The proper way of writing the sentence is "It is well-	
known that the effect of cinema on children is very bad". This is indicated by the sequence $P S P O$ and so (a) is	
This is indicated by the sequence P-S-R-Q and so (a) is the correct answer.	under made-up Americans anases pretending
34. There have been	familiarity with a culture and climate / (P) India sleeps a dynamic young cohort of highly
a day after high intensity violence left atleast 50	
persons / (P) sporadic clashes between / (Q)	
dead in the northern city of Tripoli / (R) the	
Lebanese army and militants/(S)	works through the night in the call centres
Which one of the following is the correct	
sequence?	Which one of the following is the correct
(a) Q-S-R-P (b) S-Q-R-P	sequence? (b) $O \subseteq P P$
(c) Q-S-P-R (d) S-Q-P-R	(a) P-R-Q-S (b) Q-S-P-R (c) P-S-Q-R (d) Q-R-P-S
Ans. (c) : The correct sequence of above sentences is-	(c) P-S-Q-R (d) Q-R-P-S Ans. (b) : The correct sequence of above sentences is-
(Q-S-P-R).	(Q-S-P-R).
35. Although	
of non-owner managers came to be widely	
appreciated / (P) political freedom from the British masters / (Q) came to us in 1947 it was	
not until / (R) well into the following decade	technology which has become a source / (Q) as
that the role / (S)	they epitomize his creation of an infrastructure
Which one of the following is the correct	for excellence / (R) perhaps Jawaharlal Nehru
sequence?	most consequential legacy / (S)
(a) S-P-Q-R (b) Q-R-S-P	Which one of the following is the correct sequence?
(c) S-R-Q-P (d) Q-P-S-R	(a) Q-P-S-R (b) S-R-Q-P
Ans. (b) : The correct sequence of above sentences is-	
· ·	(c) U-R-S-P (d) S-P-U-R
(Q-R-S-P).	(c) Q-R-S-P (d) S-P-Q-R <b>Ans. (b)</b> : The correct sequence of above sentences is-
(Q-R-S-P). 36. Conditions	Ans. (b) : The correct sequence of above sentences is- (S-R-Q-P).
(Q-R-S-P). <b>36.</b> Conditions for marketing in the US Canada/ (P) Mexico as	Ans. (b) : The correct sequence of above sentences is- (S-R-Q-P). 41 As India
(Q-R-S-P). <b>36.</b> Conditions for marketing in the US Canada/ (P) Mexico as a manufacturing base/ (Q) that Indian	<ul> <li>Ans. (b) : The correct sequence of above sentences is- (S-R-Q-P).</li> <li>41. As India</li> <li>from nearly 250 years of the British rule in</li> </ul>
(Q-R-S-P). <b>36.</b> Conditions for marketing in the US Canada/ (P) Mexico as a manufacturing base/ (Q) that Indian companies aspiring to tap/ (R) would have to	<ul> <li>Ans. (b) : The correct sequence of above sentences is-(S-R-Q-P).</li> <li>41. As India from nearly 250 years of the British rule in India/ (P) first major struggle for independence</li> </ul>
<ul> <li>(Q-R-S-P).</li> <li>36. Conditions for marketing in the US Canada/ (P) Mexico as a manufacturing base/ (Q) that Indian companies aspiring to tap/ (R) would have to fulfil include the complex rules of origin / (S)</li> </ul>	<ul> <li>Ans. (b) : The correct sequence of above sentences is-(S-R-Q-P).</li> <li>41. As India from nearly 250 years of the British rule in India/ (P) first major struggle for independence from the British rule / (Q) celebrates the</li> </ul>
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S:	But Jack refused to work.	S:	The tower began at one of them.
	Which one of the following is the correct		Which one of the following is the correct
	sequence?		sequence?
	(a) R-Q-P-S (b) S-P-Q-R		(a) Q-P-S-R (b) R-S-P-Q
	(c) R-P-Q-S (d) S-Q-P-R		(c) Q-S-P-R (d) R-P-S-Q
Expla	nation: The correct sequence in this example is R-	Ans.	(a) : The correct sequence of above sentences is
	which is marked by (a). Therefore, (a) is the		-S-R).
-	t answer.	-	5 K).
42.		45.	
	Radio and television are the two most	<b>S</b> <sub>1</sub> :	Entertainment television into people's home
51.	accessible media.		has special difficulties to overcome.
ς.	Many of them are led to buy and use cosmetics	<b>S</b> <sub>6</sub> :	There is no mass excitement, no real tension fo
36:	and edibles they do not need.		the curtain to rise.
р.	•	<b>P</b> :	There is no mass excitement, no real tension fo
r:	Their taste and choice have been affected by		the curtain to rise.
	commercial advertisements that come with	<b>Q</b> :	The show must conquer the dispersed, th
0	sponsored programmes.		unkeyed attention of people at home.
Q:	The most vulnerable to the influence of this	<b>R</b> :	There is no means of conditioning to make th
	wave are children.		audience receptive, as they are in a theatre or
R:	This is mainly because of the advertisement		cinema.
	wave it has created.	S:	It is, of course, quite capable of doing this, bu
S:	Of the two, television has greater impact.		the techniques of writing and production mus
	Which one of the following is the correct		take account of their limitations.
	sequence?		Which one of the following is the correct
	(a) S-P-Q-R (b) Q-R-S-P		sequence?
	(c) S-R-Q-P (d) Q-P-S-R		(a) S-Q-P-R (b) R-P-Q-S
Ans	(c) : The correct sequence of above sentences is-		(a) $S-Q-P-R$ (b) $R-P-Q-S$ (c) $S-P-Q-R$ (d) $R-Q-P-S$
(S-R-			
	Q-1).		(a) : The correct sequence of above sentences is
43.			-P-R).
<b>S</b> <sub>1</sub> :	Some experts believe that we must change our	46.	
	criminal codes to conform to new concepts of	<b>S</b> <sub>1</sub> :	Ancient India was a rich and prosperou
	punishment.	_	country.
<b>S</b> <sub>6</sub> :	The new scientific approach is that punishment	Sc:	In fact, material wealth and social through
	should fit the man.		grew side by side.
P:	The record reveals that one is a drunkard who	P:	Education and culture were equally well
	beats his wife while the other has a clean		developed.
	record.	0.	The standard of living of the people was ver
0:	Assume that two persons are charged with the	٧·	high.
•	same offence : assault with a bat.	р.	8
R:	Should both of them receive equal punishment	К:	Development was not confined to economy
к.	if their backgrounds differ?	~	alone.
s.	The idea of making punishment fit the crime is	S:	Travellers from foreign lands reported o
5:			general comforts prevailing here.
	the old eye-for-an-eye concept.		Which one of the following is the correct
	Which one of the following is the correct		sequence?
	sequence?		(a) R-P-Q-S (b) Q-S-R-P
	(a) S-R-P-Q (b) Q-P-R-S		(c) R-S-Q-P (d) Q-P-R-S
	(c) S-P-R-Q (d) Q-R-P-S	Δns	(b) : The correct sequence of above sentences is
Ans.	(b) : The correct sequence of above sentences is-		-R-P).
(Q-P-	· ·		-K-1 ).
44.	,	47.	
	The main leating improvesion of the feature is its	<b>S</b> <sub>1</sub> :	The removal of corruption prevalent in ou
C -	The main lasting impression of the factory is its		country is a difficult problem.
<b>S</b> <sub>1</sub> :	size.	S <sub>6</sub> :	Corruption can be removed only when w
		1	improve our character.
	The noise is made by the fans that cool the piles		
<b>S</b> <sub>6</sub> :	themselves.	P:	
<b>S</b> <sub>6</sub> :	themselves. The pile buildings themselves stand on a	P:	
<b>S</b> <sub>6</sub> :	themselves.		None is ready and willing to perform the Herculean task.
S <sub>6</sub> : P:	themselves. The pile buildings themselves stand on a concrete mat ten feet thick.	Q:	None is ready and willing to perform the Herculean task. It is difficult to prove that Mr. X is corrupt.
S <sub>6</sub> : P: Q:	themselves. The pile buildings themselves stand on a	Q:	None is ready and willing to perform thi Herculean task.

S: The investigating officer is hin allows the man to remain unp		R: In this essay Kennedy tried to draw the lessons from the ghastly experience of the war.
Which one of the following sequence?		S: It was published in February, 1945, aptly titled:" Let's try an Experiment in Peace".
-	-S-Q-R -R-O-S	Which one of the following is the correct sequence?
Ans. (d) : The correct sequence of al		(a) P-Q-R-S (b) S-R-Q-P
(P-R-Q-S). <b>48.</b>		(c) P-R-Q-S (d) S-Q-R-P
S <sub>1</sub> : A boy used to play pranks with hiding himself in a wooden bo		Ans. (b) : The correct sequence of above sentences is- (S-R-Q-P).
S <sub>6</sub> : Thus the box he used to hide		Section : General Knowledge
be his coffin. P: The latch accidentally got loc		51. A rubber ball dropped from 24 m height loses its kinetic energy by 25%. What is the height to
unable to open it, died of asph Q: One day the playful boy, stu- standard, refused to go to scho	dying in the fifth	which it rebounds? रबड़ की गेंद को 24 मी की ऊँचाई से गिराने पर उसकी गतिज ऊर्जा में 25% कमी आती है। यह गेंद
R: In a bid to surprise his moth	er he got into the	उसका गातज ऊजा में 25% कमा आता हा यह गद कितनी ऊँचाई तक प्रतिक्षिप्त होगी?
empry wooden box and pulled		(a) 6m/6 刊 (b) 12 m/12 刊
S: His mother was so upset by th him up in the house and went		(c) 18 m/18 印 (d) 24 m/24 印
Which one of the following	g is the correct	Ans. : (c) Let h be the height up to which the ball
sequence? (a) Q-S-R-P (b) S	-Q-R-P	rebound's after loosing 25% of its kinetic energy.
(c) Q-S-P-R (d) S	-Q-P-R	$mgh' = \frac{75}{100}(mgh)$
Ans. (a) : The correct sequence of al (Q-S-R-P).	pove sentences is-	
<b>49.</b>		or $h' = \frac{75}{100} \times h$
S <sub>1</sub> : Abha, along with Gandhi and	d Patel, hesitated	
to interrupt. S <sub>6</sub> : He learned his forearms on th	eir shoulders and	$=\frac{75}{100}\times24$
moved forward.		h' = 18 m
P: Abha, the young wife of grandson of the Mahatma's of		52. If call accelerates from rest with acceleration
the granddaughter of a	another cousin,	1.2 m/s <sup>2</sup> . A bus moves with constant speed of 12 m/s in a parallel lane. How long does the car
accompanied him. Q: Finally, therefore, she <sub>I</sub>	picked up the	take from its start to meet the bus?
Mahatma's nickel-plated wat		एक कार विरामावस्था से त्वरण 1.2 मी/से <sup>2</sup> के साथ
to him. R: "I must go away", Gandhi r	amarkad and so	चलना प्रारम्भ करती हैं। समान्तर पथ में एक बस 12 मी∕से की एकसमान चाल से चल रही है। कार को
saying he rose, went to the adj		आरम्भ से बस तक पहुँचने में कितना समय लगेगा?
and then started towards the <b>F</b> S: But she knew Gandhi's		(a) 17 s/17 सेकण्ड (b) 8 s/8 सेकण्ड
punctuality.	attachment to	(c) 20 s/20 सेकण्ड (d) 12 s/12 सेकण्ड
Which one of the following	g is the correct	Ans. : (c) Let the car takes t seconds from its start to
sequence? (a) S-P-R-Q (b) R	-Q-S-P	meet the bus.
(c) S-Q-R-P (d) R	-P-S-Q	Distance travelled by the bus in t seconds $s = 12t$ distance travelled by the car in t seconds,
Ans. (c) : The correct sequence of al (S-Q-R-P).	pove sentences is-	$\therefore \qquad S = ut + \frac{1}{2}at^2$
50. S <sub>1</sub> : Soon after he returned to	the civilian life.	Initial velocity of car $(u) = 0$
Kennedy wrote a short essay.		$S = \frac{1}{2} \times 1.2 \times t^2$
S <sub>6</sub> : Such a recurrence would taxation which, in its turn, w		
functioning of free enterpris		$12t = \frac{1}{2} \times 1.2 \times t^2$
chances of full employment. P: He had his own logic for it.		2
Q: He advanced an argument th	at after the war,	$t = \frac{12 \times 2}{1.2}$
efforts should be made	to prevent the	1.2 t = 20 seconds.
recurrence of an arms race.		
NDA & NA Exam 2008 (I)	1	1 YCT



- (a) Transistor/ट्रान्जिस्टर
- (b) Resistor/प्रतिरोधक
- (c) Transformer/परिणामित्र
- (d) Generator/जनित्र

**Ans.**: (b) To use the electric lamp (rating 110 V) on 220 V, we should combine resistors in series with the lamp. Because in an electrical circuit, resistors are connected in series order or parallel order to achieve the desired current voltage and different purposes.

- 6. Consider the following statements: निम्नलिखित कथनों पर विचार कीजिए
  - The focal length of objective of a microscope is less than the focal length of the eyepiece.
     किसी सुक्ष्मदर्शी के अभिदृश्यक की फोकस दुरी

ाकसा सूक्ष्मदशा के आभदृश्यक का फाकस दूरा नेत्रिका की फोकस दूरी से कम होती है।

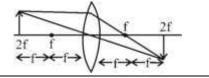
 The minimum distance between an object and its real image formed by a convex lens of focal length f is equal to 4f किसी पिण्ड और f फोकस दूरी वाले लेन्स से बने उसके वास्तविक प्रतिबिम्ब के बीच न्यूनतम दूरी 4f होती है।

Which of the statements given above is/are correct?/उपयुक्त कथनों में से कौन-सा/से सही हैं?

- (a) 1 only/केवल 1
- (b) 2 only/केवल 2
- (c) Both 1 and 2/1 और 2 दोनों
- (d) Neither 1 nor 2/न तो 1 और न ही 2

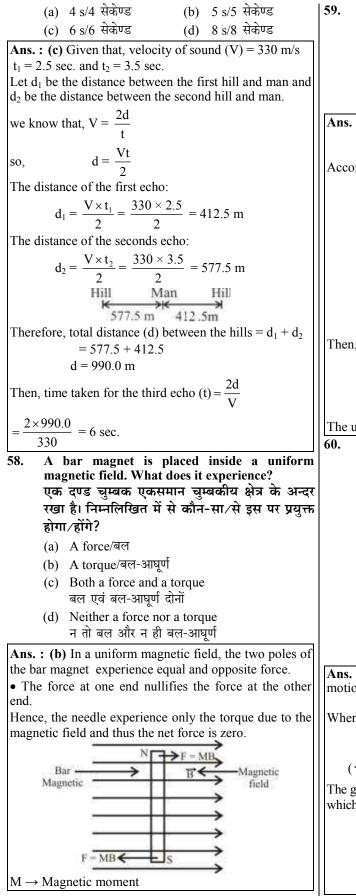
**Ans.** : (c) The compound microscope consists of a metal cylindrical tube, at the end of which a convex lens with short focal length and small aperture is attached, which is called the objective lens. Another small tube is fitted on the other end of the tube, on whose outer end another convex lens is attached, it is called the objective lens, its focal length is greater than the objective lens and the aperture is also larger.

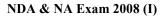
• In a convex lens, the image of an object placed at the centre of curvature is formed on the other hand at its centre of curvature, so the distance between the object and the image of the object is equal to 4f(f + f + f + f)



57. A man standing between two parallel hills fires a gun and hears two echoes, one 2.5 s and the other 3.5 s after the firing. If the velocity of sound is 330 ms<sup>-1</sup> how long will it take him to hear the third echo?

दो समान्तर पहाड़ियों के बीच खड़ा कोई व्यक्ति बन्दूक से गोली दागता है और दो प्रतिध्वनियाँ, एक गोली दागने के 2.5 सेकण्ड बाद तथा दूसरी, गोली दागने के 3.5 सेकण्ड बाद, सुनता है। यदि ध्वनि का वेग 330 मी∕से है, तो उसे तीसरी प्रतिध्वनि सुनने में कितना समय लगेगा?





A far-sighted person has a near point at 100 cm. What must be the power of the correcting lens? किसी दूर-दृष्टि वाले व्यक्ति का निकट बिन्दु 100 सेमी पर है। सुधारक लेन्स की शक्ति निम्नलिखित में से कितनी होनी चाहिए? (a) -0.8D (b) -3.0D (c) +0.8D (d) +3.0D Ans. : (d) Given that: v = -100 cmu = -25 cmAccording to lens formula,

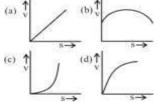
 $\frac{1}{f} = \frac{1}{v} - \frac{1}{u}$  $\frac{1}{f} = \frac{1}{-100} - \frac{1}{(-25)} = \frac{1}{-100} + \frac{1}{25}$  $\frac{1}{f} = \frac{-1+4}{100} = \frac{3}{100}$  $f = \frac{100}{2} cm$ Then, power of lenses  $(p) = \frac{1}{f(in meter)}$ 

$$p = \frac{1}{f} \times 100 = \frac{1}{100} \times 3 \times 100$$
$$p = +3.0D$$

$$p = +3.$$

The unit of power of lens is dioptre (D).

A body starting from the rest moves along a straight line with constant acceleration. Which one of the following graphs represents the variation of speed (v) and distance (s)? एक पिण्ड विरामावस्था से प्रारम्भ कर एकसमान त्वरण के साथ सरल रेखा पर चलता है। निम्नलिखित में से कौन-सा एक आलेख, चाल (v) और दूरी (s) के विचरण को निरूपित करता है?



Ans. : (d) According to Newton's third equation of motion,

$$v^2 = u^2 + 2as$$
  
When, initial velocity (u) = 0  
 $v^2 = 2as$   
 $v^2 \propto s$ 

#### (:: Acceleration (a) is constant)

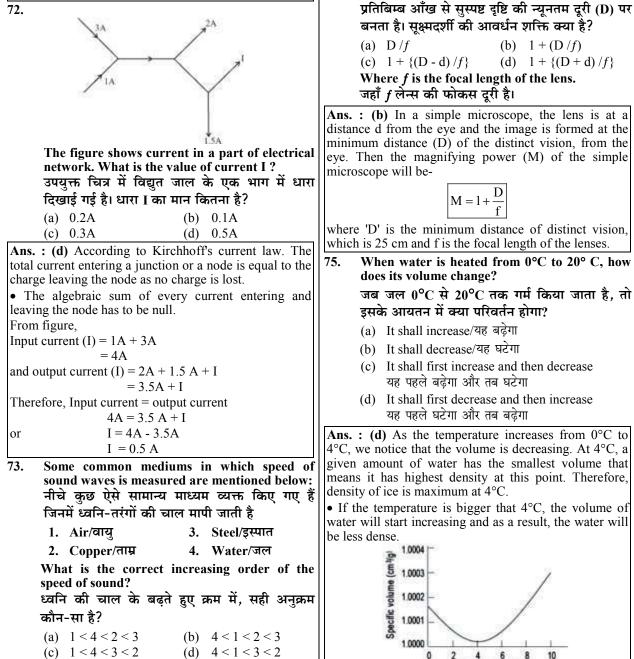
The graph between v and s will be of the form of parabola, which will be symmetric with respect to v-axis.

(c)1728 $s/1728$ $tabus$ (d)864 $s/864$ $tabus$ Ans.: (d) Time period of seconds pendulum = 2 sec We know that, the time period of simple pendulum is, $T = 2\pi \sqrt{\frac{l}{g}}$ Ans.: (a) According to question- All particle have same kinetic energyWe have $T \propto \sqrt{l}$ $E_k = \frac{1}{2} mv^2$ We have $T \propto \sqrt{l}$ Mass of $\alpha$ -particle = $6.642 \times 10^{-24}$ g Mass of neutron = $1.674 \times 10^{-24}$ g Mass of neutron = $1.674 \times 10^{-24}$ g Mass of proton = $1.6726 \times 10^{-24}$ g Mass of proton = $1.6726 \times 10^{-24}$ g Mass of lectron = $9.10938 \times 10^{-27}$ g Therefore, we can write $Mass_{a-particle} > Mass_{neutron} >$ Mass of electron = $9.10938 \times 10^{-27}$ g Therefore, we can write $Mass_{a-particle} > Mass_{neutron} >$ Mass $\gamma_a < V_n < V_p < V_e$ i.e. it will complete one oscillation in 2.02s but shown as 2s.i.e. it will complete one oscillation in 2.02s but shown as 2s.i.e. it will complete one oscillation in 2.02s but shown
We have $T \propto \sqrt{l}$ $\therefore \frac{T'}{T} = \sqrt{\frac{l'}{l}}$ Given that $l' = 1.02 l$ $\therefore \frac{l'}{l} = 1.02$ $\frac{T'}{T} = \sqrt{1.02} \approx 1.01$ T' = 2.02s i.e. it will complete one oscillation in 2.02s but shown as 2s. Mass of $\alpha$ -particle = $6.642 \times 10^{-24}$ g Mass of neutron = $1.6726 \times 10^{-24}$ g Mass of proton = $1.6726 \times 10^{-24}$ g Mass of electron = $9.10938 \times 10^{-27}$ g Therefore, we can write Mass <sub><math>\alpha</math>-particle</sub> > Mass <sub>neutron</sub> > Mass <sub>proton</sub> > Mass <sub>electron</sub> Hence, $V_{\alpha} < V_n < V_p < V_e$ <b>64.</b> Which one of the following is a good conductor of electricity? $\exists \mu + i \ end{tabular}$ $\exists t \ t \ a \ b + i \ a \ b \ a \ b \ a \ b + i \ a \ b + i \ a \ b + i \ a \ b \ a \ a \ b \ a \ a \ b \ a \ a$
We have $T \ll q t$ $\frac{T'}{T} = \sqrt{\frac{l'}{l}}$ Given that $l' = 1.02 \ l$ $\frac{T'}{l} = 1.02$ $\frac{T'}{l} = \sqrt{1.02} \approx 1.01$ $T' = 2.02s$ i.e. it will complete one oscillation in 2.02s but shown as 2s. Mass of neutron = $1.674 \times 10^{-24}$ g Mass of proton = $1.6726 \times 10^{-24}$ g Mass of electron = $9.10938 \times 10^{-27}$ g Therefore, we can write Mass <sub>a-particle</sub> > Mass <sub>neutron</sub> > Mass <sub>proton</sub> > Mass <sub>electron</sub> Hence, $V_{\alpha} < V_n < V_p < V_e$ 64. Which one of the following is a good conductor of electricity? Fit-iferRight H d ahi-th type, faggra an the type of the following is a good conductor of electricity? (a) Shellac/चपड़ा (b) Human body/मानव शरीर
$ \begin{array}{l} \therefore  \frac{T'}{T} = \sqrt{\frac{l'}{l}} \\ \text{Given that } l' = 1.02 \ l \\ \therefore  \frac{l'}{l} = 1.02 \\ \qquad \frac{T'}{l} = 1.02 \\ \qquad \frac{T'}{T} = \sqrt{1.02} \approx 1.01 \\ \qquad T' = 2.02s \\ \text{i.e. it will complete one oscillation in 2.02s but shown as 2s.} \end{array} \begin{array}{l} \text{Mass of proton} = 1.6726 \times 10^{-24} \text{g} \\ \text{Mass of electron} = 9.10938 \times 10^{-27} \text{g} \\ \text{Mass of electron} = 9.10938 \times 10^{-27} \text{g} \\ \text{Mass of electron} = 0.0038 \times$
Given that $l' = 1.02 l$ $\therefore  \frac{l'}{l} = 1.02$ $\frac{T'}{l} = 1.02$ $\frac{T'}{l} = \sqrt{1.02} \approx 1.01$ T' = 2.02s i.e. it will complete one oscillation in 2.02s but shown as 2s. Mass of electron = 9.10938 × 10° g Therefore, we can write Mass <sub>α-particle</sub> > Mass <sub>neutron</sub> > Mass <sub>proton</sub> > Mass <sub>electron</sub> Hence, $V_{\alpha} < V_{n} < V_{p} < V_{e}$ 64. Which one of the following is a good conductor of electricity? निम्नलिखित में से कौन-सा एक, विद्युत का सुचालक है? (a) Shellac/चपड़ा (b) Human body/मानव शरीर
Given that $l' = 1.02 l$ $\therefore  \frac{l'}{l} = 1.02$ $\frac{T'}{l} = 1.02 \approx 1.01$ Therefore, we can write $Mass_{\alpha-particle} > Mass_{neutron} > Mass_{electron}$ Hence, $V_{\alpha} < V_n < V_p < V_e$ 64. Which one of the following is a good conductor of electricity? T' = 2.02s i.e. it will complete one oscillation in 2.02s but shown as 2s. (a) Shellac/चपड़ा (b) Human body/मानव शरीर
$\frac{T'}{T} = \sqrt{1.02} \approx 1.01$ T' = 2.02s i.e. it will complete one oscillation in 2.02s but shown as 2s. $\frac{T'}{T} = \sqrt{1.02} \approx 1.01$ $\frac{T'}{T} = 2.02s$ i.e. it will complete one oscillation in 2.02s but shown $\frac{T'}{T} = 2.02s$ i.e. it will complete one oscillation in 2.02s but shown as 2s. $\frac{T'}{T} = 2.02s$ i.e. it will complete one oscillation in 2.02s but shown $\frac{T'}{T} = 2.02s$ i.e. it will complete one oscillation in 2.02s but shown $\frac{T'}{T} = 2.02s$ i.e. it will complete one oscillation in 2.02s but shown $\frac{T'}{T} = 2.02s$ (a) Shellac/चपड़ा (b) Human body/मानव शरीर
$\frac{T'}{T} = \sqrt{1.02} \approx 1.01$ T' = 2.02s i.e. it will complete one oscillation in 2.02s but shown as 2s. $\frac{T'}{T} = \sqrt{1.02} \approx 1.01$ $\frac{T'}{T} = 2.02s$ i.e. it will complete one oscillation in 2.02s but shown $\frac{T'}{T} = 2.02s$ i.e. it will complete one oscillation in 2.02s but shown as 2s. $\frac{T'}{T} = 2.02s$ i.e. it will complete one oscillation in 2.02s but shown $\frac{T'}{T} = 2.02s$ i.e. it will complete one oscillation in 2.02s but shown $\frac{T'}{T} = 2.02s$ i.e. it will complete one oscillation in 2.02s but shown $\frac{T'}{T} = 2.02s$ (a) Shellac/चपड़ा (b) Human body/मानव शरीर
$\frac{1}{T} = \sqrt{1.02} \approx 1.01$ T' = 2.02s i.e. it will complete one oscillation in 2.02s but shown as 2s. of electricity? निम्नलिखित में से कौन-सा एक, विद्युत का सुचालक है? (a) Shellac/चपड़ा (b) Human body/मानव शरीर
T' = 2.02s i.e. it will complete one oscillation in 2.02s but shown as 2s. (a) Shellac/चपड़ा (b) Human body/मानव शरीर
1'= 2.02s         i.e. it will complete one oscillation in 2.02s but shown as 2s.         (a) Shellac/चपड़ा         (b) Human body/मानव शरीर
as 2s. (b) Human body/मानव शरीर
Therefore, clock loses 0.02s for every 2s or otherwise, (c) Glass/काँच
0.01s for every second. (d) Ebonite/एबोनाइट
$\therefore$ in one day it will lose = $24 \times 60 \times 60 \times 0.01$ s [Ans. : (b) Conductors are substances which allow the
= 864  s. passes of electricity through them, same thing happened
62. Which one among the following radiations with human body, so this makes our body a good conductor of electricity.
carries maximum energy? निम्नलिखित में से कौन-सा एक सर्वाधिक ऊर्जस्वी • Few common examples of conductors are silver,
विकिरण है?
(a) Ultraviolet rays/पराबेंगनी किरणें 65. Which one of the following chemicals is used in
(b) Gamma-rays/गामा-किरणें foam fire extinguishers?
(c) X-rays/X-किरणें फोम अग्निशामकों में निम्नलिखित में से कौन-सा
(d) Infra-red rays/अवरक्त किरणें रसायन काम में लाया जाता है?
Ans. : (b) The energy of an electromagnetic wave is       (a) Aluminium sulphate/एल्युमीनियम सल्फेट
determined by the formula, (b) Copper sulphate/कॉपर सल्फेट
E = hv (c) Cobalt sulphate/abilities the frequency of the (i) and (i) are the frequency of the (i) are
Here h is Planck's constant and v is the frequency of the (d) Nickel sulphate/निकिल सल्फेट
• Hence, higher the frequency higher is the energy. Ans. : (a) Aluminium sulphate is used in 'foam' fire extinguishers, which contain sodium bicarbonate and
Because gamma rays nave the highest frequency, it has a later in substance is separate recentacles on being
the highest energy. Order of frequency/energy is: $11 (20) + (21) (20) + ($
Gamma rays > X-rays > Ultraviolet rays > infrared rays     $AI_2(SO_4)_3 + 6 \text{ NaHCO}_3 \rightarrow 2AI(OH)_3 + 6CO_2 + 2Na_2SO_4$
63. The neutron, proton, electron and alpha       66. Talc contains which of the following?
particle are moving with equal kinetic energies.
How can the particles be arranged in the increasing order of their velocities? (a) Zinc, Calcium and Oxygen
न्यूट्रॉन, प्रोटॉन, इलेक्ट्रॉन और एल्फा कण समान जिंक कैल्शियम और ऑक्सीजन
गतिज ऊर्जाओं के साथ चल रहे हैं। कणों को, उनके (b) Calcium, Oxygen and Tin
वेगों के बढ़ते हुए क्रम में, किस प्रकार विन्यासित कर कैल्शियम, ऑक्सीजन और टिन
सकते हैं? (c) Magnesium, Silicon and Oxygen
(a) Alpha particle-neutron-proton-electron मैग्नीशियम, सिलिकॉन और ऑक्सीजन
एल्फा कण-न्यूट्रॉन-प्रोटॉन-इलेक्ट्रॉन (d) Zinc, Tin and Sulphur/जिंक, टिन और गन्धक

YCT

Ans. : (c) Talcum powder is made up of talc. It is a mineral which is composed of hydrated magnesium silicate and the constituent elements are magnesium, silicon, and oxygen.• The chemistry formula or representation of talc is Mg <sub>3</sub> Si <sub>4</sub> O <sub>10</sub> (OH) <sub>2</sub> .• Talc is mostly deposited in the metamorphic rocks of convergent plate boundaries. It is obtained from two processes. It is found to deposited. When heated water carrying dissolved magnesium and silica react with dolomite marbles. In the second way the production of talc is obtained when heat and chemically active fluids alter rocks such as dunite and serpentinite.67. Which one of the following mixtures is homogeneous? 日म्मलिखित में से कौन-सा एक, सामांगी मिश्रण है? (a) Starch and sugar/स्टॉर्च और शर्करा (b) Methanol and water/मेथेनॉल और जल (c) Graphite and charcoal/प्रेफाइट एवं चारकोल	important characteristic of water to act as a good solvent? निम्नलिखित में से कौन-सा एक, अच्छा विलायक बनने के लिए जल का सबसे महत्वपूर्ण गुण है? (a) Purity of water/जल की शुद्धता (b) Ionizing power of water जल की आयनीकरण शक्ति (c) Polar nature of water/जल की ध्रुवीय प्रकृति (d) Dissolving power of water जल की घोलने की शक्ति Ans. : (c) The polar nature of water is the most important property of water to become a good solvent because all the compounds in water easily ionize to form positive is on one side and negative ions on the other side. $H_2O \rightarrow H^+ + (HO)^-$
(d) Calcium carbonate and calcium bicarbonate कैल्सियम कार्बोनेट एवं कैल्सियम बाइकार्बोनेट	70. When iron is left exposed in open air, it gets rusted. Which constituent (s) of air is/are responsible for rusting iron?
<ul> <li>Ans.: (b) The term homo stands for uniform or same.</li> <li>A homogenous mixture in which the substances are evenly or uniformly distributed.</li> <li>Homogeneous mixtures are such mixtures whose particles cannot be separated, such as salt cannot be separated from an aqueous solution of salt, in the same way, and similarly water cannot be separated from an aqueous solution of methanol.</li> </ul>	मुक्त वायु में लोहे को खुला रखने पर इस पर जंग लग जाता है। वायु का कौन-सा⁄से घटक लोहे पर जंग लगने के लिए उत्तरदायी है⁄हैं? 1. Oxygen has present in air वायु में विद्यमान ऑक्सीजन गैस 2. Moisture present in air/वायु में मौजूद नमी
68. Which one of the following laws explains the formation of carbon monoxide and carbon	
dioxide from carbon and oxygen? कार्बन और ऑक्सीजन से कार्बन मोनोऑक्साइड और कर्नन कार्यन्य के के	below:
कार्बन डाइऑक्साइड का बनना निम्नलिखित में से किस एक नियम से व्यक्त होता है?	(a) 1 only/केवल 1 (b) 2 only/केवल 2
(a) Law of conservation of mass	(c) 1 and 2/1 और 2 (d) 2 and 3/2 और 3
संहति के संरक्षण नियम (b) Law of multiple proportions गुणन अनुपात का नियम (c) Law of reciprocal proportions व्युत्क्रमानुपात का नियम	<b>Ans.</b> : (c) Iron gets rusted when it is exposed to moisture. This is due to the fact that iron which is a metal, react to oxygen molecules and form oxides when exposed to moisture. Due to the abundance of oxygen in our atmosphere the iron piece gets rusted very easily. $4Fe + 3O_3 + 3H_2O \rightarrow Fe_2O_3 + 2Fe(OH)_3$
<ul> <li>(d) Law of definite proportions</li> <li>स्थिर अनुपात का नियम</li> </ul>	71. Evening Sun is not as hot as the mid day sun. What is the reason?
Ans. : (b)Law of multiple proportions states that when two elements combine to generate more than one compound, the weights of one element that combine with a fixed weight of the other are in a ratio of small whole numbers. The English scientist John Dalton established the rule in 1803. • Example: Let us assume two molecule of CO (Carbon monoxide) and CO <sub>2</sub> (Carbon dioxide) CO = 12 grams of carbon + 16 grams of oxygen. CO <sub>2</sub> = 12 grams of carbon + 32 grams of oxygen. The ratio of the mass of oxygen in the given two compounds is: 16 : 32 = 1 : 2	<ul> <li>सायंकाल का सूर्य उतना तप्त नहीं होता जितना मध्याह्न का। इसका क्या कारण है?</li> <li>(a) In the evening radiations travel slowly सायंकाल में विकिरण धीमी गति से होता है</li> <li>(b) In the evening the temperature of the sun decreases/सायंकाल में सूर्य का ताप कम हो जाता है</li> <li>(c) Ozone in atmosphere absorbs more light in the evening/वायुमण्डल की ओजोन सायंकाल में अपेक्षाकृत अधिक प्रकाश अवशोषित कर लेती है</li> <li>(d) In the evening radiations travel a long distance through atmosphere/सायंकाल में, विकिरण वायुमण्डल में अपेक्षाकृत अधिक दूरी तय करता है</li> </ul>
	पापुनण्डरा न अवदायुगा जावक दूरा राष करता ह

**Ans. : (d)** During the morning or evening sun will be on the horizon and rays should travel long distances. So more heat is lost and during mid day sun is our heads and rays will travel very less distance, so, less heat is lost. Hence, we feel more heat during mid day than in the morning or evening.



In a simple microscope, the lens is held at a

distance d from the eye and the image is

formed at the least distance (D) of the distinct

vision from the eye. What is the magnifying

सरल सूक्ष्मदर्शी में, लेन्स आँख से d दूरी पर है और

power of the microscope?

Ans. : (a) Speed of sound is different in different<br/>medium. It is generally more in solids, less in liquids<br/>and least in gasses because of more elasticity in solids.<br/>Medium Speed of sound (m/s)1. Steel59602. Copper46003. Water15314. Air343

Therefore, according to option: 1 < 4 < 2 < 3

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16

76.

ture (°C)

The fraction of a ball floating inside the liquid

जल के अंदर तैरती गेंद का अंश निर्भर करता है-

द्रव के घनत्व पर निर्भर करता है।

Tempera

**Consider the following statements:** 

निम्नलिखित कथनों पर विचार कीजिए

depends upon-

1. density of the liquid

- 2. mass of the ball. गेंद के द्रव्यमान पर निर्भर होता है।
- 3. density of the ball. गेंद के घनत्व पर निर्भर होता है।

Which of the statements haven above are correct? उपर्यक्त कथनों में से कौन-से सही है?

- (a) 1 and 2 only/1 और 2
- (b) 2 and 3 only/2 और 3
- (c) 1 and 3 only/1 और 3
- (d) 1, 2 and 3/1, 2 और 3

Ans. : (c) According to the Archimedes principle:the upward buoyant force that is exerted on a body immersed in a fluid, whether partially or fully submerged is equal to the weight of the fluid that the body displaces and acts in the upward direction at the center of mass of the displaced fluid.

 $F_b = \rho \times g \times v$ 

where,  $\rho = \text{density}$ 

g = Acceleration due to gravity.

• Fraction of ball floating inside the liquid is equal to the specific gravity of the ball. So, it depends on the density of the liquid and the density of the ball. • It does not depend on the mass of the object.

A wire has a resistance of 32  $\Omega$ . It melted and 77. drawn into a wire of half of its original length. What is the resistance of the new wire? एक तार का  $32\Omega$  प्रतिरोध हैं इसे गलाकर इसकी मुल लम्बाई से आधी लम्बाई का तार बनाया जाता है। नए तार का प्रतिरोध कितना है?

16Ω

(a) 
$$32\Omega$$
 (b)  $16\Omega$   
(c)  $8\Omega$  (d)  $4\Omega$ 

Ans.: (c) Given that:-Resistance of the wire,  $R = 32 \Omega$ 

Wire is melted and it's length become half of its initial

length (L). So, new length (L') =  $\frac{L}{2}$ 

In both cases, volume of wire is same. V = A'L' = AL

and

- $\frac{\mathbf{A}'}{\mathbf{A}} = \frac{\mathbf{L}}{\mathbf{L}'} = \frac{\mathbf{L}}{\underline{\mathbf{L}}} = \frac{2}{1} \qquad \left( \because \mathbf{L}' = \frac{\mathbf{L}}{2} \right)$  $A^1$  = new cross-section area
- Where, A = initial cross-section area Therefore, ratio of resistance is,

Resistivity of the same material is always same  $(\rho)$ 

$$\therefore \qquad \frac{\mathbf{R'}}{\mathbf{R}} = \frac{\rho \frac{\mathbf{L'}}{\mathbf{A'}}}{\rho \frac{\mathbf{L}}{\mathbf{A}}} = \frac{\mathbf{L'}}{\mathbf{L}} \times \frac{\mathbf{A}}{\mathbf{A'}} = \frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$$

New resistance.

$$\frac{R'}{R} = \frac{1}{4} \Longrightarrow R' = \frac{1}{4}R = \frac{1}{4} \times 32 = 8\Omega$$
  
Hence, new resistance is 8 $\Omega$ .

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- 78. **Consider the following statements:** An external pressure  $p_0$  is applied to the surface of a liquid in a container. Then: किसी पात्र में रखे द्रव के पृष्ठ पर एक बाह्य दाब pa लगाया जाता है। तो-
  - 1. The pressure on all side-walls increases by p<sub>0</sub>/सभी पार्श्व-भित्तियों पर दाब p<sub>0</sub> बढ जाता है।
  - The pressure on the bottom wall increases 2. by  $p_0/$ तल भित्ति पर दाब  $p_0$  बढ जाता है।
  - The pressure at all points inside the liquid 3. increases by p<sub>0</sub>/द्रव के अन्दर सभी बिन्दुओं पर दाब po बढ़ जाता है।

#### Which of the statements given are correct? उपर्युक्त कथनों में से कौन-से सही है?

- (a) 1, 2 and 3/1, 2 और 3
- (b) 1 and 2 only/केवल 1 और 2
- (c) 1 and 3 only/ केवल 1 और 3
- (d) 2 and 3 only/ केवल 2 और 3

Ans. : (a) According to Pascal's law:- "When external pressure is applied on any part of the liquid kept in the vessel, it is transmitted equally in all direction without any loss."

Therefore, when external pressure is applied on the surface of a liquid placed in a vessel, the pressure increase uniformly on all the sidewalls, on the bottom wall an at all points inside the liquid.

Let us assume that air density (0.0013g/cm<sup>3</sup>) 79. remains constant as we go up in the atmosphere. In such a hypothetical case, what is the approximate height of atmosphere to have 1 atmospheric pressure? मान लें कि जब हम वायुमण्डल में ऊपर की ओर जाते हैं. तो वाय का घनत्व (0.0013) ग्राम∕सेमी³) एकसमान बना रहता है। ऐसे परिकल्पनात्मक मामले में 1 वायुमण्डलीय दाब होने के लिए वायुमण्डल की लगभग ऊँचाई कितनी है? (a) 4 km/4 किमी (b) 8 km/8 南 f 和 (d) 80 km/80 किमी (c) 40 km/40 किमी Ans. (b) Given that, Density ( $\rho$ ) = 0.0013 gm/cm<sup>3</sup> = 0.0013 × 10<sup>9</sup> kg/m<sup>3</sup> Since,  $p = h \times \rho \times g$ Where, p = pressure,  $\rho = density$  and, g = gravity $\therefore$  1 Atmospheric pressure =  $1.013 \times 10^5$  Pa.  $1.013 \times 10^{5} = h \times 0.0013 \times 9.8 \times 10^{3}$  $h = \frac{1.013 \times 10^{5}}{0.0013 \times 10^{9} \times 9.8} = 7.951 \times 10^{3} \text{ m}$  $h \simeq 8 \text{ km}.$ 80. Which one of the following movements started from Dandi?/निम्नलिखित में से कौन-सा आन्दोलन दाण्डी से प्रारम्भ हुआ? (a) Swadeshi Movement/स्वदेशी आन्दोलन (b) Non-cooperation Movement असहयोग आन्दोलन

<ul> <li>सित्रच उत्यदा आन्देलन स्वार प्राप्त छेड़ी आन्दोलन सित्राज के की प्रकार कि की कि के की के प्रकार के के</li></ul>	<ul> <li>सिंदन उनकी आन्द्रोतन (19) से किस के का देखे आन्द्रोतन (19) से किस के कि किस के की किस के का किस के किस के कि के कि किस के के कि के कि किस के के कि किस के के कि कि की कि की कि के कि कि की कि की कि के के कि के के कि के कि के कि के कि के कि के कि के के</li></ul>		
<ul> <li>(a) Capitalism/एँजीवाद</li> <li>(b) Fascism/फांसीवाद</li> <li>(c) Marxism/मावर्सवाद</li> <li>(d) Democratic socialism/लोकतान्त्रिक समाजवाद</li> <li>Ans.: (b) Fascism first emerged in Italy. Its originator is considered to be Mussolini. Fascism refers to autocratic dictatorship. Under this, democratic institutions are devalued by defaming the opposition by spreading summers in a conspiration manner. That is, it is such a political theory, which supports the favor of gradual extinction of the state.</li> <li>82. India is not a member of which one of the following?</li> <li>(a) Commonwealth of Independent States स्वतन्व राज्यों का राष्ट्रमण्डल (कॉमनवेल्थ ऑफ इण्डिपॅडेंट स्टेट्स)</li> <li>(b) South Asian Association for Regional Cooperation दक्षिण एशिया क्षेत्रीय सहयोग संगठन (सार्क)</li> <li>(c) South Asian Free Trade Agreement उष्प्रिया एशिया क्षेत्रीय सहयोग संगठन (सार्क)</li> <li>(c) South Asian Free Trade Agreement उष्प्रिया एशिया क्षेत्रीय सहयोग संगठन (सार्क)</li> <li>(c) South Asian Free Trade Agreement उष्प्रिया एशिया क्षेत्रीय सहयोग संगठन (सार्क)</li> <li>(c) South Asian Free Trade Agreement उष्प्रिय एशिया क्षेत्रीय सहयोग संगठन (सार्क)</li> <li>(c) South Asian Free Trade Agreement उष्प्र प्रारंक्य का प्रारंक्य का प्रारंक्य का प्रारंक्य का Agreement उर्क्य प्रारंक्य का प्रारंक्य का Agreement उर्क्य का प्रारंक्य का प्रारंक्य का Agreement उर्क्य का प्रारंक्य का Agreement उर्क्य प्रारंक्य का Agreement उर्क्य का Agreement उर्क्य का प्रारंक्य का Agreement उर्क्य का Agreement उर्क्य का प्रारंक्य का Agreement उर्क्य का Agreement उर्क्य</li></ul>	<ul> <li>(a) Capitalism/पुँजीवाद</li> <li>(b) Fascism/फासीवाद</li> <li>(c) Marxism/मार्क्सवाद</li> <li>(d) Democratic socialism/लोकतान्त्रिक समाजवाद</li> <li>Ans.: (b) Fascism first emerged in Italy. Its originator is considered to be Mussolini. Fascism refers to autocratic dictatorship. Under this, democratic institutions are devalued by defaming the opposition by spreading summers in a conspiration manner. That is, it is such a political theory, which supports the favor of gradual extinction of the state.</li> <li>82. India is not a member of which one of the following?</li> <li>भारत निम्नलिखित कथनों पर विचार कीजिए</li> <li>1. Panchsheel was signed between People Republic of China and India after the Sino-Indian War in 1962/1962 में चीन-भार युद्ध के बाद पीपुल्स रिपब्लिक ऑफ चाइना औ भारत के बीच पंचशील पर हस्ताक्षर किए गए।</li> <li>2. India and China supporting each other i international forum is one of the principle of panchsheel./अन्तर्राष्ट्रीय मंचों पर भारत औ चीन का एक-दूसरे को समर्थन देना पंचशील के हिं?</li> <li>(a) Commonwealth of Independent States स्वतन्व राज्यों का राष्ट्रमण्डल (कॉमनवेल्य ऑफ इण्डिरॉडेंट स्टेट्स)</li> <li>(b) South Asian Association for Regional Cooperation दक्षिण एशिया क्षेत्रीय सहयोग संगठन (सार्क)</li> <li>(c) South Asian Free Trade Agreement दक्षिण एशियाबी मुक्त व्यापार समझौता</li> <li>(c) South Asian Free Trade Agreement दक्षिण एशियाबी मुक व्यापार समझौता</li> </ul>	सविनय अवज्ञा आन्दोलन (d) Quit India Movement/भारत छोड़ो आन्दोलन Ans. : (c) On 12 march 1930, Mahatma Gandhi was started the Dandi March with 78 of his followers form the Sabarmati Ashram as a part of the civil disobedience movement. On 5 <sup>th</sup> April, 1930, Gandhi broke the salt law by reaching Dandi. It was from here that the Civil disobedience movement started. In this movement, programs like resignation from government jobs, boycott of foreign goods and cloths, ban on payment of land revenue, rent and other taxes, boycott of government functions and schools were included. Swadeshi Movement:- It arose from the anti-Partition movement, which was formed in response to lord Curzon's decision to divide the province of Bengal. The Swadeshi movement began in 1905 as a unified reaction to Bengal's partition and lasted until 1908. The non-cooperation movement was launched in 1920 by INC under the leadership of Mahatma Gandhi. It was introduced in congress session in Calcutta. Gandhiji Called off the movement in February 1992 in the wake of the Chauri Chaura incident. In 1942, Mahatma Gandhi Called to end British rule and launched the quit India movement at the session of the all India congress committee in Mumbai. 81. Which one of the following political theories advocates the withering away of the State?	<ul> <li>In December 1991, the leaders of Belarus, Russia and Ukraine formally dissolved the Soviet union and formed the CIS.</li> <li>SAARC:- It was established in Dhaka on 8 December 1985. After consultations, the foreign secretaries of the seven founding countries Bangladesh, Bhutan, India, Maldives, Nepal, Pakistan, and Sri Lank.</li> <li>They met for the 1<sup>st</sup> time in Colombo in 1981. Afghanistan became the newest member of SAARC at the 13<sup>th</sup> annual summit in 2005. Its headquarter are at Kathmandu, Nepal.</li> <li>The SAFTA is the free trade agreement between the members of SAARC in 2004. The agreement came into force in 2006, succeeding the 1993 SAARC Preferential Trading agreement.</li> <li>WTO:- It is the only global international organization dealing with the rules of trade between nations. WTO was established on January 1995. Since, 1948, the General Agreement on Tariffs and trade (GATT) had provided the rules for the system. Its headquarter are Geneva, Switzerland.</li> <li>In 2021, Ngozi Okonjo Iweala was appointed as the WTO Director General. She is the first woman chief of the WTO. She is also the first African to hole the office</li> </ul>
(d) World Trade Opportion (Figure Times)	(d) world Irade Organization/14% व्यापार सगठन [[10110ws:-	<ul> <li>(a) Capitalism/पूँजीवाद</li> <li>(b) Fascism/फासीवाद</li> <li>(c) Marxism/मार्क्सवाद</li> <li>(d) Democratic socialism/लोकतान्त्रिक समाजवाद</li> </ul> Ans. : (b) Fascism first emerged in Italy. Its originator is considered to be Mussolini. Fascism refers to autocratic dictatorship. Under this, democratic institutions are devalued by defaming the opposition by spreading summers in a conspiration manner. That is, it is such a political theory, which supports the favor of gradual extinction of the state. 82. India is not a member of which one of the following? <ul> <li>भारत निम्नलिखित में से किस एक का सदस्य नहीं है?</li> <li>(a) Commonwealth of Independent States स्वतन्त्र राज्यों का राष्ट्रमण्डल (कॉमनवेल्थ ऑफ इण्डिपेंडेंट स्टेट्स) <ul> <li>(b) South Asian Association for Regional Cooperation दक्षिण एशिया क्षेत्रीय सहयोग संगठन (सार्क)</li> <li>(c) South Asian Free Trade Agreement दक्षिण एशियायी मुक्त व्यापार समझौता</li> </ul></li></ul>	<ul> <li>निम्नलिखित कथनों पर विचार कीजिए</li> <li>Panchsheel was signed between People's Republic of China and India after the Sino-Indian War in 1962/1962 में चीन-भारत युद्ध के बाद पीपुल्स रिपब्लिक ऑफ चाइना और भारत के बीच पंचशील पर हस्ताक्षर किए गए।</li> <li>India and China supporting each other in international forum is one of the principles of panchsheel./अन्तर्राष्ट्रीय मंचों पर भारत और चीन का एक-दूसरे को समर्थन देना पंचशील के सिद्धांतों में से एक है।</li> <li>Which of the statements given above is/are correct?/उपर्युक्त कथनों में से कौन-सा/से सही है/हैं?</li> <li>(a) 1 only/केवल 1</li> <li>(b) 2 only/केवल 2</li> <li>(c) Both 1 and 2/1 और 2 दोनों</li> <li>(d) Neither 1 Nor 2/न तो 1 और न ही 2</li> </ul> Ans.: (d) The Panchsheel agreement, otherwise known as five principles of coexistence, are a set principles govern relation between states. They were first codified during an agreement between India and China in April, 1954.

<ul> <li>88. Who among the following annulled the Partition of Bengal? बंगाल विभाजन का निम्नलिखित में से किसने निराकरण किया? <ul> <li>(a) Lord Chelmsford/लॉर्ड चेम्सफोर्ड</li> <li>(b) Lord Curzon/लॉर्ड कर्जन</li> <li>(c) Lord Minto/लॉर्ड मिन्टो</li> <li>(d) Lord Hardinge/लॉर्ड हॉर्डिंग</li> </ul> </li> <li>Ans.: (d) The partition of Bengal was annulled in 1911 by Lord Hardinge. It was done in response to the Swadeshi movement's riots in protest against the policy. Important points: <ul> <li>The partition of Bengal was announced by the viceroy Lord Curzon on 19<sup>th</sup> July, 1905.</li> <li>Bengal was partitioned on 16th October, 1905.</li> <li>Swadeshi movement was launched to protest the partition of Bengal.</li> <li>In 1905, the "Bang Bhang" movement started in the whole country in protest against the partition of Bengal.</li> <li>After political opposition, Lord Hardinge reintegrated Bengal on 12th December, 1911.</li> </ul> </li> <li>89. With which one of the following is the 'Tennis court oath' associated? <ul> <li>निम्नलिखित में से किस एक के साथ 'टेनिस कोर्ट अमेथ' सम्बद्ध है?</li> <li>(a) English Revolution/इंग्लिश क्रान्ति</li> <li>(b) American Revolution/अमेरिकी क्रान्ति</li> <li>(c) French Revolution/रूसी क्रान्ति</li> <li>(d) Russian Revolution/रूसी क्रान्ति</li> <li>(e) The Tennis court oath was a commitment to a national constitution and representative government, taken by delegates at the Estates-General at Versailles.</li> <li>I has become one of the most iconic scenes of the French Revolution. The Tennis Court Oath of Versailles taken on 20<sup>th</sup> June 1789.</li> </ul> </li> <li>90. By virtue of which Act, diarchy was introduced in India? <ul> <li>भारत में किस एक्ट के आधार पर हैध शासन लागू</li> </ul> </li> </ul>	displace hydrogen gas from a dilute acid? निम्नलिखित में से कौन-सा तत्व, किसी तनु अम्ल से हाइड्रोजन गैस का विस्थापन नहीं कर सकता? (a) Zinc/जस्ता (b) Copper/ताम्र (c) Magnesium/मैग्नीशियम (d) Iron/लोहा Ans. : (b) In the electrochemical series, the metals which are placed above the hydrogen are more reactive than hydrogen. So, they have the ability to displace hydrogen. For example, Na, Fe, Zn, etc. • On the other hand, in the electrochemical series, the metals, which are placed below the hydrogen are less reactive than hydrogen. So, they cannot displace hydrogen. For example Cu, Hg, Ag, Au etc. Reactivity series of metals: K > Na > Ca > Mg > Al > Zn > Fe > Sn > Pb > H > Cu > Hg > Ag > Au (Most reactive metal) 92. When an alkali-metal reacts with water, which one of the following gases is produced? जब एक क्षार धातु जल से अभिक्रिया करती है, तो निम्नलिखित में से कौन-सी गैस उत्पन्न होती है? (a) Hydrogen/हाइड्रोजन (b) Oxygen/ऑक्सीजन (c) Hydrogen peroxide/हाइड्रोजन परॉक्साइड (d) Ozone/ओजोन Ans. : (a) Alkali metals react with water and by the law of nature that dissolve thus making it soluble like water. They are highly reactive and affinity towards water increases down the group. Alkali metals in reaction with water produce energy, hydrogen gas and metal hydroxide. Example 2 Na + 2 H <sub>2</sub> O → 2 NaOH + H <sub>2</sub> 93. Which of the following salts are insoluble in water? निम्नलिखित में से कौन-से लबण जल में अधुलनशील है?
in India? भारत में किस एक्ट के आधार पर द्वैध शासन लागू	निम्नलिखित में से कौन-से लवण जल में अघुलनशील
किया गया? (a) Government of India Act, 1909 गवर्नमेंट ऑफ इण्डिया एक्ट, 1909 (b) Government of India Act, 1919 गवर्नमेंट ऑफ इण्डिया एक्ट, 1919 (c) Government of India Act, 1935 गवर्नमेंट ऑफ इण्डिया एक्ट, 1935 (d) Government of India Act, 1947 गवर्नमेंट ऑफ इण्डिया एक्ट, 1947 Ans. : (b) The government of India Act, 1919 introduced diarchy, a system of dual government, in India. It divided the powers of the provincial government into two: the reserved and the transferred subjects. The reserved subjects were in the hands of the British, and the transferred subjects were left under the control of Indian ministers.	<ul> <li>(a) Chlorides of Fe and Mn Fe और Mn के क्लोराइड</li> <li>(b) Nitrates of Ag and Pb/Ag और Pb के नाइट्रेट</li> <li>(c) Carbonates of Pb and Cu Pb और Cu के कार्बोनेट</li> <li>(d) Phosphates of Na and NH<sub>4</sub> Na और NH<sub>4</sub> के फॉस्फेट</li> </ul> Ans. : (c) Insoluble salts are those ionic compounds that are not able to dissolve in water but form a suspension i.e. the salt continues to exist as solid rather than dissolving in liquid for e.g. All carbonates, hydroxides and oxides are insoluble with the exception of sodium, K, and ammonium salts. <ul> <li>Carbonates of Pb and Cu are insoluble in water and are Heterogeneous mixture.</li> </ul>

94. What is the composition of nitrolim-a chemical	• Gypsum (Calcium Sulphate, its chemical formula
fertilizer?	$CaSO_4.2H_2O$ ) is used as grouting to retard the
रासायनिक उर्वरक नाइट्रोलिम में कौन-से घटक हैं?	setting time.
<ul> <li>(a) Nitrogen and limestone</li> <li>नाइट्रोजन और चूना पत्थर</li> </ul>	• Cement as a binder material which is used for construction work.
(b) Calcium carbide and nitrogen	Ingredient of cement:
कैल्सियम कार्बाइड और नाइट्रोजन	Lime = 60-65%
(c) Calcium carbide and carbon	Silica = 17-25%
कैल्सियम कार्बाइड और कार्बन	Alumina = 3-8%
(d) None of the above/उपरोक्त में से कोई नहीं	Magnesia = $1-3\%$
Ans. : (b) When nitrogen is passed over calcium	Iron oxide = $0.5-6\%$ Calcium Sulphate = $0.1-0.5\%$
carbide at a suitable high temperature, we get a mixture	Sulphur Trioxide = 1-3%
called nitrolim which is a nitrogenous fertilizer, which	Alkaline = $0-1\%$
is a mixture of calcium cyanamide and carbon.	97. What is a mixture of potassium nitrate,
$CaC_2 + N_2 \xrightarrow{\Delta} CaCN_2 + C_{Calcium}$	powdered charcoal and sulphur called?
Cyanamide	पोटैशियम नाइट्रेट, चूर्णीकृत चारकोल और गन्धक के
Nitrolim	मिश्रण को क्या कहा जाता है?
• Calcium cyanamide is a glossy powder used in	(a) Glass/কাঁच
agriculture as manure, herbicide, pesticide, and a	(b) Cement/सीमेन्ट
<ul><li>defoliant for cotton plants.</li><li>95. Which one of the following glasses is used in</li></ul>	
bullet proof screens?	(d) Gun powder/गन पाउडर
निम्नलिखित काँचों में से कौन-सा एक, गोली-रोक	
आवरण के लिए प्रयोग में लाया जाता है?	Sulphur, charcoal, and potassium nitrate (saltpeter)
(a) Soda glass/सोडा काँच	.Gun powder is also known as black powder. Sulphur
(b) Pyrex glass/पाइरेक्स काँच	and charcoal acts as fuel and the saltpeter in an oxidizer.
(c) Jena glass/जेना काँच	Reaction:
(d) Reinforced glass/प्रबलित काँच	$2KNO_3(s) + S(s) + 3 C(s) \rightarrow K_2S(s) + N_2(g) + 3CO_2(g)$
Ans. : (d) Reinforced glass in used in bullet proof	It's 75% by weight KNO <sub>3</sub> , 15% charcoal and 10% sulphur.
covers.	98. In which one of the following is the valence
Bulletproof glass is a strong and optically transparent	electronic configuration, ns <sup>2</sup> np <sup>3</sup> found?
material that is particularly resistant to penetration by projectiles.	निम्नलिखित में से किस एक में संयोजकता
	इलेक्ट्रॉनिक विन्यास ns²np³ मिलता है?
• Ordinary glass is a sodium solution (mixture) of silica, sodium silicate and calcium silicate. Sand,	(a) Carbon/कार्बन (b) Oxygen/ऑक्सीजन
soda and quartz are used as raw materials in glass	(c) Nitrogen/नाइट्रोजन (d) Argon/ऑर्गन
manufacturing.	<b>Ans.</b> : (c) The general electronic configuration $ns^2np^3$
• Soda glass is used for making tube light and bottles etc.	holds true for the nitrogen family which are the group
• Pyres glass is used for making laboratory	15 elements. These include N, P, As, Sb and Bi.
equipment. Because it has a higher coefficient of	As all the given atoms have their atomic number and electronic configurations as follows.
thermal expansion and is heat resistant.	• $_{6}C = 1S^2, 2S^2, 2P^2$
• Jena glass is used in chemical vessels and scientific	$\bullet_{8}O = 1S^2, 2S^2, 2P^4$
experiments.	$\bullet_7 N = 1S^2 \cdot 2S^2 \cdot 2P^3$
96. Which substance is used the setting action of	$\bullet_{18}$ Ar = 1S <sup>2</sup> , 2S <sup>2</sup> , 2P <sup>6</sup> , 3S <sup>2</sup> , 3P <sup>6</sup>
cement? सीमेन्ट के जमने की क्रिया को मन्द करने के लिए	$II_{area} NS^2 nD^3$ can only be seen in electronic
सामन्ट के जमन का किया का मन्द करन के लिए कौन-सा पदार्थ काम में लाया जाता है?	configuration of Nitrogen
(a) CaO (b) $Al_2O_3$	99. The molecular weight and equivalent weight of
(a) $CaO$ (b) $A1_2O_3$ (c) $CaSO_4.2H_2O$ (d) $Na_2O+K_2O$	which one of the following is the same?
<b>Ans.</b> : (c) The retarder is an admixture that slows down	निम्नलिखित में से किस एक का आणविक भार और
the chemical process of hydration so that concrete	तुल्यांकी भार समान होता है?
remains plastics and workable for a longer time than	(a) $H_2SO_4$ (b) $KMnO_4$
concrete without the retarder.	(c) $H_2C_2O_4$ (d) NaOH
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<b>Ans.</b> : (d) The molecular weight and equivalent weight in sodium hydroxide (NaOH) are the same.	(b) Babur and Rana Sanga/बाबर और राणा सांगा
	(c) Humayun and Sher Khan/ हुमायूँ और शेरखान
Equivalent weight = $\frac{\text{Molecular weight}}{\text{Number of replacable OH}^{-}(\text{Acidity})}$	(d) Humayun and Nusrat Shah हुमायूँ और नुसरत शाह
Equivalent weight of NaOH = $\frac{23+16+1}{1} = \frac{40}{1} = 40$	<b>Ans. : (b)</b> The Battle of Khanwa took place near the village of Khanwa, about 60 km west of Agra, on 1527.
and equivalent mass of $NaOH = 40$	The battle was fought between the first Mughal
Hence, equivalent weight of NaOH = equivalent mass of NaOH = $40$ .	Emperor Babar and the Rajput king Rana Sanga of Mewar, after the first battle of Panipat. Babar's victory
100. Who of the following is a contemporary of	in the battle of Khanwa consolidation Mughal dynasty in India.
Gautama Buddha? निम्नलिखित में से कौन एक, गौतम बुद्ध का	103. Which Sultan declared himself as Sikandar-i-
समकालीन है?	Sani, the Second Alexander?
(a) Ashvaghosa/अश्वघोष	किस सुल्तान ने स्वयं को सिकन्दर-ए-सानी, दूसरा सिकन्दर, घोषित किया?
(b) Nagarjuna/नागार्जुन	(a) Balban/बलबन
(c) Parsvanath/पार्श्वनाथ	(b) Kaiqubad/कैकूबाद
(d) Vardhmana Mahavira/वर्द्धमान महावीर	(c) Iltutmish/इल्तुतमिश
Ans. : (d) Gautama Buddha, the founder of Buddhism,	(d) Alauddin Khalji/अलाउद्दीन खिलजी
and Vardhamana Mahavira, the founder of Jainism, were, contemporaries. Buddha was believed to be born	Ans. : (d) Alauddin Khalji called himself as the
around 563 B.C. in Lumbini. Mahavira was believed to	"second Alexander". He was one of the most powerful
be born around 540 B.C. in Vaishali.	emperors of the Khalji dynasty. He is known for the
• Vardhamana Mahavira, the 24 <sup>th</sup> Tirthankara was born in village called Kundagrama near Vaishali	<ul><li>reforms in revenue and price policies.</li><li>He was responsible for many administrative changes</li></ul>
(Bihar) while Gautam Buddha was born at a place	during his reign, also noted for repulsing the Mongol
called Lumbini, which is situated near the Indo-	invasion in India. He had a dream of conquering the
<ul><li>Nepal border.</li><li>Gautuma Buddha attained Enlightenment (Nirvana)</li></ul>	world, so in his coins, he started to depict himself as "Sikandar-i-Sani."
under the pipal tree on the day of Vaisakha Purnima.	104. Other than Annie Besant, who among the
	104. Other than Annie Desant, who among the
Today it is called bodhi tree which is located in	following also launched a Home Rule
Today it is called bodhi tree which is located in Gaya, Bihar. Mahavira Swami attained Kaivalya	following also launched a Home Rule Movement in india?
Today it is called bodhi tree which is located in Gaya, Bihar. Mahavira Swami attained Kaivalya knowledge under the sal tree located on the banks of the Rijupalika River near Jrambhika village in Bihar	following also launched a Home Rule Movement in india? एनी बेसेन्ट के अतिरिक्त, निम्नलिखित में से किस एक
Today it is called bodhi tree which is located in Gaya, Bihar. Mahavira Swami attained Kaivalya knowledge under the sal tree located on the banks of the Rijupalika River near Jrambhika village in Bihar on Vaisakha Shukla 10.	following also launched a Home Rule Movement in india? एनी बेसेन्ट के अतिरिक्त, निम्नलिखित में से किस एक ने भी भारत में होमरूल आन्दोलन चलाया?
<ul> <li>Today it is called bodhi tree which is located in Gaya, Bihar. Mahavira Swami attained Kaivalya knowledge under the sal tree located on the banks of the Rijupalika River near Jrambhika village in Bihar on Vaisakha Shukla 10.</li> <li>101. Which one of the following dynasties built the</li> </ul>	following also launched a Home Rule Movement in india? एनी बेसेन्ट के अतिरिक्त, निम्नलिखित में से किस एक ने भी भारत में होमरूल आन्दोलन चलाया? (a) Aurobindo Ghosh/अरविन्द घोष
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- (a) Lord Irwin/लॉर्ड इर्विन
- (b) Ramsay MacDonald/रैमसे मैक्डोनल्ड
- (c) Lord Linlithgo/लॉर्ड लिनलिथगो
- (d) Winston Churchill/विन्सटन चर्चिल

**Ans.**: (b) On 16<sup>th</sup> August, 1932, it was announced by the British Prime Minister, Ramsay MacDonald to grant separate electorates in British India for the Forward caste, Lower caste, Muslims, Buddhists, Sikhs, Indian Christians, Anglo-Indians, Europeans, and untouchables Dalits), etc.

- In 1926, lord Irwin was appointed as a viceroy and Governor- general of India. During this period the important events were : Simon commission (1928), Nehru report (1928), Jinnah's 14 Points, Chittagong armoury Raid (1930), Civil disobedience movement, Dandi March (1930), first Round table conference, and Gandhi Irwin Pact, Demand for Poorna swaraja in Lahore session etc.
- Lord Linlithgo was viceroy of India from 1936 to 1944 and these eight years were the longest reign as viceroy of India. During this period, parts of the Government of India Act 1935 came into force in 1937.
- 106. Consider the following statements: निम्नलिखित कथनों पर विचार कीजिए
  - Coal is a sedimentary rock. कोयला अवसादी शैल है।
  - Basalt is an igneous rock. बेसाल्ट आग्नेय शैल है।

Which of the statements given above is/are correct?

उपर्युक्त कथनों में से कौन-सा⁄स सही है⁄हैं?

- (a) 1 only/केवल 1
- (b) 2 only/केवल 2
- (c) Both 1 and 2/1 और 2 दोनों
- (d) Neither 1 nor 2/न तो 1 और न हीं 2

**Ans.**: (c) The sedimentary rocks often develop through layer and finally form on Earth's surface or close to the same. Sedimentary rocks are the result of deposition of fragment of rocks by exogenous process. This is also known as the secondary rocks. Example, Sandstone, shale, coal etc.

•Basalt is a dark colored, fine grained, igneous rock composed mainly of plagioclase and pyroxene mineral. It is most commonly forms as an extrusive rock, such as a lava flow, but can also form in small intrusive bodies, such as an igneous dike or a thin sill.

107. The National Highway No. 7 connects which of the following? राष्ट्रीय राजमार्ग संख्या 7 निम्नलिखित में से किनको जोडती है?

- (a) Mumbai with Varanasi/मुम्बई को वाराणसी से
- (b) Delhi with Bhubaneshwar/दिल्ली को भुवनेश्वर से
- (c) Delhi with Kanyakumari दिल्ली को कन्याकुमारी से
   (d) Varanasi with Kanyakumari वाराणसी को कन्याकुमारी से

**Ans.**: (d) The NH in India are a network of trunk roads that are owned by the Ministry of Road Transport and Highways. It was constructed and managed by the NHAI, NHIDCL (National Highway and infrastructure Development corporation) and PWD of state government.

- The longest NH is India is NH-7 which is now called NH 44. It starts from Srinagar in north and terminated in Kanyakumari in south. Therefore, from the given option, the NH7 connects Varanasi to kanyakumari.
- It runs through the states of Uttar Pradesh, Madhya Pradesh, Maharashtra, Andhra Pradesh, Karnataka, and Tamil Nadu.

108. Port Blair-the capital of Andaman and Nicobar Islands, is located in which one of the following islands? अण्डमान एवं निकोबार द्वीपसमूह की राजधानी पोर्ट ब्लेयर निम्नलिखित में से किस एक द्वीप में अवस्थित है?

- (a) North Andaman/उत्तर अण्डमान
- (b) Little Andaman/छोटा अण्डमान
- (c) Middle Andaman/मध्य अण्डमान
- (d) South Andaman/दक्षिण अण्डमान

**Ans.**: (d) Port Blair is the capital of Andaman and Nicobar Island, is located in South Andaman. They belongs to South Andaman administrative district, part of the Indian union territory of Andaman and Nicobar Islands.

• The southernmost point of India, Pygmalion Point (Indira Point) is located in Great Nicobar. The 10° channel separates the Andaman from Nicobar Islands.

- 109. In which one of the following regions are the Andes mountains located? एण्डीज पर्वतमाला निम्नलिखित में से किस एक क्षेत्र में अवस्थित है?
  - (a) East Europe/पूर्व यूरोप
  - (b) West Europe/पश्चिम यूरोप
  - (c) South Africa/दक्षिण अफ्रीका
  - (d) South America/दक्षिण अमेरिका

**Ans. : (d)** The Andes is the largest continental range of mountains in the world. This mountain is located on South America's western side.

• The length of Andes Mountains is 7600 km or 4700 miles. This mountain is located along with seven countries. The width of the mountain is around 200 to 300 km. Mount Aconcagua is the highest peak of this mountain.

110. Which one of the following soils is most suitable for cotton cultivation? कपास की खेती के लिए निम्नलिखित में से कौन-सी एक मृदा सर्वाधिक उपयुक्त है?

- (a) Red soil/लाल मृदा
- (b) Black soil/काली मृदा
- (c) Loamy soil/दुमटी मृदा
- (d) Laterite soil/लेटराइट मृदा

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Ans.: (b) Black soil holds moisture for longer periods	Local winds:- Its are caused by the uneven heating of
and possess rich quantities of humus. Block soil having	land and water. They are classified into four types
clay character. Therefore, Black soils are most suitable	sea breeze, land breeze, valley breeze and
for the cotton crop. Hence, it is also known as black	mountain breeze.
cotton soil. Besides cotton, the soil is suitable for the	Variable winds:- Variation in the prevailing winds are
cultivation of crops like-Wheat, groundnut, chilies,	caused by disturbances and changes in the local
tobacco and Jwar.	weather. Normally cyclones, anticyclones and storms form as a result of variable winds.
• India is the second-largest producer of cotton in the	
world, which is a Kharif fiber crop that requires	113. El Nino current appears along the coast of
high temperate and rainfall of about 50-120 cm and	which one of the following?
can be grown in the region of Deccan plateau as	एल नीनो धारा निम्नलिखित में से किस एक के तट
well as up to some extent in alluvial soils of the	पर आती है?
Satluj-Ganga plain and red and laterite soils of the	<ul><li>(a) Brazil/ब्राजील</li></ul>
peninsular region.	(b) Peru/पेरू
• China leads the world in cotton production.	(c) Alaska/अलास्का
111. Among the following which State has highest	(d) Western Australia/पश्चिमी ऑस्ट्रेलिया
level of literacy?/निम्नॅलिखित में से किस एक राज्य	<b>Ans. : (b)</b> El Nino, meaning "Child Christ" is a warm
में साक्षरता का स्तर सर्वोच्च है?	ocean current appearing along the Peru coast, generally
(a) Mizoram/मिजोरम	in December. It normally happens once every 4-5 years
	though it is not fixed.
(b) West Bengal/पश्चिम बंगाल	• It replaces the cold Peru Ocean current flowing along
(c) Gujarat/गुजरात	the Peru coast in normal years.
(d) Punjab/पंजाब	• EI Nino is a climate pattern that describes the unusual
Ans. : (a) Mizoram has the highest literacy rate among	warming of surface waters in the eastern tropical pacific
the given options.	ocean.
• According to the Census 2011 top five literacy rate of	114. Which among the following is the major item
state in India are	of export from Paradeep Port?
(1) Kerala 94.0%	निम्नलिखित में से कौन-सी एक, पारादीप पत्तन से
(2) Lakshadweep 91.8%	होने वाले निर्यात की प्रमुख मद है?
(3) Mizoram 91.3%	(a) Rice/चावल (b) Tea/चाय
(4) Goa 88.7%	(c) Fish/मछली (d) Iron ore/लौह-अयस्क
(5) Himachal Pradesh 82.8%	Ans. : (d) The Pradeep Port in Odisha will be
• Bihar is the least literate state in India, with a literacy	developed into a world-class modern port.
of 63.82%.	<ul> <li>Pradeep Port Authority was established in 1966 as a</li> </ul>
112. What are the Westerlies?	single commodity port for iron ore exports. After
पछुवा हवाएँ (वेस्टरलीज) क्या है?	the port is transformed, it can handle all kinds of
(a) Permanent winds/स्थायी पवन	import and export goods, including iron ore, chrome
(b) Seasonal winds/मौसमी पवन	ore, aluminum ingot, coal, fertilizer raw materials,
(c) Local winds/स्थानीय पवन	limestone, clinker, finished steel, and containers etc.
	• This port has been developed to export iron and
(d) Variable winds/परिवर्तनशील पवन	manganese from the Kiriburu region to Japan.
Ans. : (a) Permanent winds are those which blow	115. Indian Standard Time refers to the local time
continuously in the same belt all through the year. They	of which one of the following places in India?
blow from high pressure belt to low pressure belts.	भारतीय मानक समय, भारत के निम्नलिखित में से
There are three main types of planetary winds- (i) Trade winds	किस एक नगर के स्थानीय समय को निर्दिष्ट करता है?
	(a) Allahabad/इलाहाबाद (b) Bhopal/भोपाल
<ul><li>(ii) Westerlies</li><li>(iii) Easterlies</li></ul>	
<ul> <li>The Westerlies that blow in the mid latitudes</li> </ul>	(c) Delhi/दिल्ली (d) Lucknow/লखनऊ
between 30°-60° in both hemispheres (most	Ans. : (a) The time along the standard Meridian of
commonly referred to as roaring forties, furious	India (82°30'E), which passes through Mirzapur, near
fifties and shrieking sixties)	Allahabad is the standard time for the entire country.
Seasonal winds:- Seasonal winds and the winds that	• Indian standard Time is 5 hours 30 minutes ahead of
last for a particular season and are caused by the	Greenwich Mean Time (GMT + 5.5).
changes in temperature. It's are classified into	• The prime Meridian helps to define universal time
three types monsoon, trade and prevailing	and is the meridian from which all other time zones
westerlies.	are calculated.
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<ul> <li>116. Which one of the following regions on the surface of Earth has Horse Latitudes?</li></ul>	<ul> <li>Ans. : (d) Cellular Respiration is the process of extracting energy in the form of ATP from the glucose in the food cellular respiration is a three step</li> <li>Process:- 1. Glucose is broken down in the cytoplasm of the cell.</li> <li>2. The Pyruvate molecules are transported into the mitochondria.</li> <li>3. The energy in the energy carries enters an electron transport chain During this step this energy is used to produce ATP.</li> <li>Mitochondria is a double membrane structure present in all aerobic eukaryotic cells. The outer membrane is permeable to small molecules. It allows the uptake of substrates and release of ATP. The inner membrane is semi permeable and is very rich in enzymes.</li> <li>119. In which one of the following animal skin is a respiratory organ?</li> </ul>
found it extremely difficult to sail due to the calm atmospheric conditions here, so the horses had to be thrown out to sea to lighten the vessel. For this reason this belt was named Ashwa Latitude. <b>117. consider the following rivers:</b>	निम्नलिखित में से कौन-सा एक कोशिकांग, कोशिकीय श्र्वसन के लिए उत्तरदायी है? (a) Cockroach/कॉकरोच (b) Frog/मेंढक (c) Shark/शार्क (d) Whale/व्हेल Ans. : (b) Skin works as a respiratory organ in frog.
निम्नलिखित नदियों पर विचार कीजिए 1. Betwa/बेतवा 2. Kosi/कोसी 3. Gandak/गण्डक Which of the above joins Yamuna river?	<ul> <li>The frog has three respiratory surface on its body which it uses to exchange gas with its surroundings: the skin, in the lungs and on the lining of the mouth.</li> <li>In the cockroach, breathing happens through the spiracles a narrow opening on the side of the body.</li> </ul>
<b>उपर्युक्त नदियों में से कौन-सी, यमुना से जुड़ती है</b> /हैं? (a) 1 only/केवल 1 (b) 1 and 2/1 और 2 (c) 1 and 3/1 और 3 (d) 2 and 3/2 और 3 Ans.: (a) The Betwa is a river in central and Northern	<ul> <li>When oxygen-rich air enters the body of the cockroach through spiracles into the tracheal tubes, it spreads to various tissues and cells of the body.</li> <li>Gills are respiratory organs found in most aquatic organisms. It can be found in shark, Clownfish, Squid etc.</li> </ul>
<ul> <li>India, and a tributary of the Yamuna. It rises in the Vindhya Range (Raisen) just north of Narmadapuram in Madhya Pradesh and flows northeast through Madhya Pradesh and Orchha to Uttar Pradesh.</li> <li>The Kosi is a trans boundary river which flows</li> </ul>	<ul> <li>Lungs are the breathing organ of whales.</li> <li>120. Consider the following statements: निम्नलिखित कथनों पर विचार कीजिए In fern plants,/फर्न पौधो में,</li> </ul>
<ul> <li>through China, Nepal and India. It drains the northern slopes of the Himalayas in Tibet and the southern slopes in Nepal.</li> <li>Gandak River, also called Narayani River. This</li> </ul>	<ol> <li>vascular system is absent. संवहन तन्त्र नहीं होता है।</li> <li>reproductive organs are multi-cellular. जननांग बहुकोशी होते हैं।</li> </ol>
<ul><li>river in central Nepal and northern India. It is formed by the union of the Kali and Trisuli rivers, which rise in the Great Himalaya Range in Nepal.</li><li>Kosi and Gandak river is the tributaries of the</li></ul>	Which of the statements given above is/are correct? उपर्युक्त कथनों में से कौन-सा/से सही है/हैं? (a) 1 only/केवल 1
Ganges. 118. Which one of the following cell organelles is responsible for cellular respiration? निम्नलिखित में से कौन-सा एक कोशिकांग, कोशिकीय श्वसन के लिए उत्तरदायी है?	<ul> <li>(b) 2 only/केवल 2</li> <li>(c) Both 1 and 2/1 और 2 दोनों</li> <li>(d) Neither 1 nor 2/न तो 1 और न ही 2</li> </ul> Ans. : (b) In ferns, vascular system is present and
<ul> <li>(a) Endoplasmic reticulum/अन्तप्रर्द्रव्यी जालिका</li> <li>(b) Golgi body/गॉल्जी काय</li> <li>(c) Lysosome/लयनकाय (लाइसोसोम)</li> <li>(d) Mitochondrium/माइटोकांड्रिया</li> </ul>	Ans. : (b) In terns, vascular system is present and reproductive organs are multicellular. Most ferns are leafy plants that grow in moist areas under forest canopy. They are "Vascualr Plants" with well- developed internal vein structures that promote the flow of water and nutrients.
NDA & NA Exam 2008 (I) 2	5 YCT

• Unlike the other vascular plants, the flowering plants with Prime Minister Jawaharlal Nehru as the chairman. Authority for the creation of the planning commission and conifers, where the adult plants grows immediately was not derived from the constitution of India. It is an from the speed, ferns reproduce from spores and an arm of the central Government of India. intermediate plant stage called a gametophytes. **Consider the following statements:** 121. Who was the First Foreign Minister of free 124. निम्नलिखित कथनों पर विचार कीजिए-India? स्वतन्त्र भारत का प्रथम विदेशमन्त्री कौन था? 1. Hariyali is a watershed devolopment project sponsored by the Central (a) Jawaharlal Nehru/जवाहरलाल नेहरू Government./हरियाली, केन्द्र सरकार द्वारा (b) Guljari Lal Nanda/गुलजारी लाल नन्दा प्रायोजित एक जलसंभर विकास परियोजना है। (c) Lal Bahadur Shastri/लाल बहाद्र शास्त्री 2. Hariyali also aims at enabling the urban (d) Jan Mathai/जॉन मथाई population to conserve rain water. Ans. (a) The first Prime Minister of Independent India शहरी जनता को वर्षा जल संरक्षण के लिए समर्थ Jawaharlal Nehru also held the post of Foreign बनाना भी हरियाली का एक लक्ष्य है। Minister. He is the longest serving Foreign Minister of Which of the statement given above is/are India with approximately 17 years of tenure. correct? • The constitution of India was enacted in 1950. He उपर्युक्त कथनों में से कौन-सा/से सही है/हैं? started on an ambitious program of economic, social (a) 1 only/केवल 1 and political reforms. He also took an important and leading role in the Non-Aligned Movement in foreign (b) 2 only/केवल 2 policy. Jawaharlal Nehru was the first prime minister (c) Both 1 and 2/1 और 2 दोनों of independent India who is longest serving foreign (d) Neither 1 nor 2/न तो 1 और न ही 2 minister of India. Ans. : (a) Hariyali Yojana was started by the central 122. Who among the following established Ferguson Government in January, 2003. It is a watershed College at Pune in the year 1885? project. development Its main objective is पुणे में वर्ष 1885 में फर्ग्यूसन कॉलेज की स्थापना implementation of water harvesting schemes, rain water निम्नलिखित में से किसने की? harvesting, prevention of drinking water problem, tree (a) Deccan Education Society plantation and promotion of fisheries. डेक्कन एजुकेशन सोसायटी · Watersheds where people's support is guaranteed through the contribution of labour, money ,material and (b) Bhartiya Sewak Samai/भारतीय सेवक समाज forth for its improvement just as for the activity and (c) Samaj Sewa Sangh/समाज सेवा संघ upkeep of the resources made . When a watershed covers (d) Theosophical Society/थियोसोफिकल सोसायटी two or more villages it should be partitioned into villagewise sub watershed bound to the assigned villages. Ans. : (a) Fergusson college was founded by the 125. The Nuclear Power Station Rawatbhata is in Deccan Education Society in 1885 at Pune. It was which State? named after Sir James Fergusson, the Governor of नाभिकीय शक्ति स्टेशन रावतभाटा. किस राज्य में है? Bombay. This city is known as Queen of Deccan. (a) Maharashtra/महाराष्ट्र The Theosophical Society was founded by Madame Helena Blavastsky and Colonel Olcott in 1875 in (b) Uttar Pradesh/उत्तर प्रदेश New York. It was only 1879, that this ideology (c) Rajasthan/राजस्थान gained its roots in the Indian culture and society. It (d) Tamil Nadu/तमिलनाड् was crystallized in the Madras Presidency with its Ans.: (c) The eight nuclear power station is located at headquarters in Adayar. The movement was Rawatbhata in Rajasthan. Rawatbhat also has one of the popularized by Annie Besant in India. biggest dams in Rajasthan, called Rana Pratap Sagar Who is the ex-officio Chairman of the Planning 123. Dam, which is on the Chambal river. This Nuclear **Commission of India?** Power station established in 1975. भारत के योजना आयोग का पदेन अध्यक्ष कौन है? It was established in collaboration with the (a) Vice-President of India/भारत का उपराष्ट्रपति Government of Canada. (b) The Prime Minister of India Rawatbhata nuclear power plant is a 1240 MW भारत का प्रधानमंत्री capacity nuclear power plant. (c) The Finance Minister of India/भारत का वित्तमंत्री It is the second nuclear power plant in India. (d) The Law Minister of India/भारत का विधिमन्त्री India's first major nuclear power plant is at Tarapur Ans.: (b) After India achieved Independence, a formal Maharashtra (established 1969). model of planning was adopted, and accordingly, the • Tarapur nuclear power plant was established with planning commission, reporting directly to Prime Minister of India, was established on 15<sup>th</sup> March, 1950 the help of the USA.

- 126. What is the name given to an almost circular 129. coral reef inside which there is a lagoon? लगभग वृत्ताकार, बीच में अनूप (लगून) से युक्त, प्रवाल भित्ति को क्या नाम दिया गया है?
  - (a) Fringing reef/सीमान्त (फ्रिंजिंग) प्रवाल भित्ति
  - (b) Barrier reef/रोधिका (बैरियर) प्रवाल भित्ति
  - (c) Atoll/अडल (अटोल)
  - (d) Isthmus/इस्थमस

**Ans.**: (c) An Atoll is a ring-shaped coral reef, island, or series of islets. An Atoll surrounds a body of water called a lagoon. Sometimes, Atolls and Lagoons protect a central island. Channels between islets connect a lagoon to the open ocean or sea. Atolls develop with underwater volcanoes, called seamounts.

- Fringing reefs are reefs that grow directly from a shore. They are located very close to land and often form a shallow lagoon between the beach and the main body of the reef.
- Barrier reefs are extensive linear reef complexes that parallel a shore, and are separated from it by lagoon. This is the largest (in size, not distribution) of the three reefs (fringing, Barrier and Atoll).
- 127. Mahatma Gandhi Hydroelectric Project is on which river?

महात्मा गाँधी जल-विद्युत परियोजना किस नदी पर है?

- (a) Godavari/गोदावरी (b) Sharavati/शरावती
- (c) Cauvery/कावेरी (d) Krishna/कृष्णा

**Ans.**: (b) Jog falls is created by the Sharavati River dropping 253 m (830 ft), making it is the second-highest plunge waterfall in India..

• This power station was previously named Krishna Rajendra Hydroelelectric Project, after the King the Mysore at the time. The name was later changed to Mahatma Gandhi Hydroelectric Project.

• Mahatma Gandhi Hydroelectric Project is associated with the famous jog fall that is created by Sharavati River.

128. For which one of the following is Lamba in Gujarat, famous?

गुजरात में लांबा निम्नलिखित में से किस एक के लिए प्रसिद्ध है?

- (a) Cultivation of oil yielding plants तिलहन की खेती
- (b) Wind power plant/पवन शक्ति संयन्त्र
- (c) Oil refinery/तेलशोधक संयन्त्र
- (d) Uranium enrichment plant यूरेनियम संवर्धन संयन्त्र

**Ans.** : (b) Gujarat is famous for 'Lamba' wind power plant. India ranks fourth in wind power generation after China, America and Germany. India's wind power potential is about 33 GW. The government has set a target of generation 60 GW of wind power by 2022.

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- Consider the following statement: निम्नलिखित कथनों पर विचार कीजिए–
  - Kandla Port is situated at the head of Gulf of Khambhat./काण्डला पत्तन, खम्भात की खडी के शीर्ष पर अवस्थित है।
  - 2. Paradeep Port is situated in the Mahanadi Delta.

पारादीप पत्तन, महानदी डेल्टा में अवस्थित है।

Which of the statements given above is/are correct?

उपर्युक्त कथनों में से कौन-सा⁄से सही है/हैं?

- (a) 1 only/केवल 1
- (b) 2 only/केवल 2
- (c) Both 1 and 2/1 और 2 दोनों
- (d) Neither 1 nor 2/न तो 1 और न ही 2

**Ans.** : (b) Paradeep port is located on the delta of Mahanadi in Bay of Bengal in Odisha.

- The port is administered by the Paradeep Port Trust (PPT) which is an autonomous corporation wholly owned by the Government of India.
- Kandla, new officially Deendayal Port Authority, is a seaport and town in Kutch district of Gujarat state in Western India, near the city of Gandhidham.
- 130. Match List-I with List-II and select the correct answer using the codes given below the lists: सूची I को सूची II के साथ सुमेलित कीजिए और सूचियों के नीचे दिए गए कूट का प्रयोग कर सही उत्तर चनिए

<u> </u>	•		_
	List-I/सूची I		List-II/सूची II
	(coal fields of		(State)/
	India)/		(राज्य)
	(भारत के कोयला		
	क्षेत्र)		
А	Jharia/झरिया	1.	Tamil Nadu
			तमिलनाडु
В	Raniganj/रानीगंज	2.	Odisha/ओडिशा
С	Talcher/तालचेर	3.	Jharkhand/झारखण्ड
D	Korba	4.	West Bengal
	कोरबा		पश्चिम बंगाल
		5.	Chhattisgarh
			छत्तीसगढ़
2 1			

#### Code/कूट: A

	Α	D	C	υ
(a)	3	4	2	5
(b)	2	5	1	4
(c)	3	5	2	4
(d)	2	4	1	5

D

Ans. : (a) Coal field of India – State	(d) Secretory General of UN
(1) Jharia – Jharkhand	संयुक्त राष्ट्र का महासचिव
(2) Raniganj – West Bengal	Ans. : (d) 'Ban-ki-Moon' was eighth secretary General
(3) Talcher – Odisha	of the united Nations, serving two consecutive terms,
	from $1^{\text{st}}$ January, 2007 to $31^{\text{st}}$ December, 2016. As
(4) Korba – Chhattisgarh	secretary-General, he focused on mobilizing world
131. Which one of the following has recently made it	leaders around a set of new global challenges, from
to the Guinness Book of World records for	climate change and economic upheaval to pandemics
being the world's largest Hindu temple	and increasing pressures involving food, energy and
complex?	water.
निम्नलिखित में से कौन-सा एक, विश्व के वृहत्तम हिन्दू	
मन्दिर परिसर के रूप में गिनीज बुक वर्ल्ड रिकॉर्ड में	• Antonio Guterres is the current secretary General of
हाल ही में शामिल किया गया है?	the united Nations (UN). He is the ninth secretary-
(a) Sri Venkateshvara Temple Complex, Tirupati	General, his term began 1 <sup>st</sup> January, 2017. He was
श्री वेंकटेश्वर मन्दिर परिसर, तिरूपति	also started second terms from 1 <sup>st</sup> January 2022 and
(b) The ISKCON Temple complex, New Delhi	ending on 2026.
दि ISKCON मन्दिर परिसर, नई दिल्ली	• In UN the secretary general is appointed by General
	Assembly upon the recommendation of the security
(c) Swaminarayan Akshardham Temple Complex, New Delhi	council. The current term of the secretary General is
Complex, New Defini स्वामीनारायण अक्षरधाम मन्दिर परिसर, नई दिल्ली	5 years and held office for more than two terms.
	134. Who among the following has been decleared
(d) Lingaraja Temple Complex, Bhubaneshwar	as best footballer for the year 2007 by FIFA?
लिंगराज मन्दिर परिसर, भुवनेश्वर	FIFA द्वारा निम्नलिखित में से किसे 2007 का
<b>Ans.</b> : (c) The Swaminarayan Akshardham Temple in New Delhi has been included in Guinness Book of	सर्वोत्कृष्ट फुटबॉल खिलाड़ी घोषित किया गया है?
world Records in December 2007 as the world's largest	(a) Ronaldo/रोनाल्डो
Hindu Temple complex. This Temple was officially	(b) Kaka/काका
opened on 6 <sup>th</sup> November 2005. It is spread over about	
100 acres of land.	(c) Ronaldinho/रोनाल्डिन्हो
132. Where is the Counter insurgency and Jungle	(d) Roberto Carlos/रोबर्टी कार्लोस
Warfare School (CIJWS), a training of the	
	Ans.: (b) Brazilian midfielder Kaka won the 2007 FIFA
Indian Army specializing in unconventional	<b>Ans.</b> : (b) Brazilian midfielder Kaka won the 2007 FIFA world player of the year award, while another Brazilian.
Indian Army specializing in unconventional warfare, specially guerilla warfare, located?	world player of the year award, while another Brazilian. 'Marta' took home the women's award. Robert
Indian Army specializing in unconventional warfare, specially guerilla warfare, located? काउण्टर-इन्सर्जेन्सी एण्ड जंगल वारफेयर स्कूल	world player of the year award, while another Brazilian.
Indian Army specializing in unconventional warfare, specially guerilla warfare, located? काउण्टर-इन्सर्जेन्सी एण्ड जंगल वारफेयर स्कूल (CIJWS) जो कि भारतीय सेना का अपारम्परिक युद्ध,	world player of the year award, while another Brazilian. 'Marta' took home the women's award. Robert Lewandowaski won the best footballer for the year 2021.
Indian Army specializing in unconventional warfare, specially guerilla warfare, located? काउण्टर-इन्सर्जेन्सी एण्ड जंगल वारफेयर स्कूल (CIJWS) जो कि भारतीय सेना का अपारम्परिक युद्ध, विशेषत: गुरिल्ला युद्ध में विशेषज्ञता प्रदान करने वाला	<ul> <li>world player of the year award, while another Brazilian.</li> <li>'Marta' took home the women's award. Robert Lewandowaski won the best footballer for the year 2021.</li> <li>135. In the year 2007, in which one of the following</li> </ul>
Indian Army specializing in unconventional warfare, specially guerilla warfare, located? काउण्टर-इन्सर्जेन्सी एण्ड जंगल वारफेयर स्कूल (CIJWS) जो कि भारतीय सेना का अपारम्परिक युद्ध, विशेषत: गुरिल्ला युद्ध में विशेषज्ञता प्रदान करने वाला प्रशिक्षण संस्थान है, कहाँ अवस्थित है?	world player of the year award, while another Brazilian. 'Marta' took home the women's award. Robert Lewandowaski won the best footballer for the year 2021.
Indian Army specializing in unconventional warfare, specially guerilla warfare, located? काउण्टर-इन्सर्जेन्सी एण्ड जंगल वारफेयर स्कूल (CIJWS) जो कि भारतीय सेना का अपारम्परिक युद्ध, विशेषत: गुरिल्ला युद्ध में विशेषज्ञता प्रदान करने वाला प्रशिक्षण संस्थान है, कहाँ अवस्थित है? (a) Vairengte, Mizoram/वारेंग्ते, मिजोरम	<ul> <li>world player of the year award, while another Brazilian.</li> <li>'Marta' took home the women's award. Robert Lewandowaski won the best footballer for the year 2021.</li> <li>135. In the year 2007, in which one of the following places was the "UN Framework Convention on Climate Change" held?</li> </ul>
Indian Army specializing in unconventional warfare, specially guerilla warfare, located? काउण्टर-इन्सर्जेन्सी एण्ड जंगल वारफेयर स्कूल (CIJWS) जो कि भारतीय सेना का अपारम्परिक युद्ध, विशेषत: गुरिल्ला युद्ध में विशेषज्ञता प्रदान करने वाला प्रशिक्षण संस्थान है, कहाँ अवस्थित है? (a) Vairengte, Mizoram/वारेंग्ते, मिजोरम	world player of the year award, while another Brazilian. 'Marta' took home the women's award. Robert Lewandowaski won the best footballer for the year 2021. 135. In the year 2007, in which one of the following places was the "UN Framework Convention on Climate Change" held? वर्ष 2007 में निम्नलिखित में से किस स्थान पर
Indian Army specializing in unconventional warfare, specially guerilla warfare, located? काउण्टर-इन्सर्जेन्सी एण्ड जंगल वारफेयर स्कूल (CIJWS) जो कि भारतीय सेना का अपारम्परिक युद्ध, विशेषत: गुरिल्ला युद्ध में विशेषज्ञता प्रदान करने वाला प्रशिक्षण संस्थान है, कहाँ अवस्थित है? (a) Vairengte, Mizoram/वारेंग्ते, मिजोरम (b) Kirkee, Pune/किरकी, पुणे	world player of the year award, while another Brazilian. 'Marta' took home the women's award. Robert Lewandowaski won the best footballer for the year 2021. 135. In the year 2007, in which one of the following places was the "UN Framework Convention on Climate Change" held? वर्ष 2007 में निम्नलिखित में से किस स्थान पर ''जलवायु परिवर्तन पर संयुक्त राष्ट्र का ढाँचा
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<ul> <li>136. Recently, the Inter-Governmental Panel on Climate Change shared the Nobel Prize with who of the following? हाल ही में, जलवायु परिवर्तन पर अंतर-सरकारी पैनल (इन्टर-गवर्नमेंटल पैनल ऑन क्लाइमेंट चेंज) ने निम्नलिखित में से किसके साथ नोबेल पुरस्कार प्राप्त किया?</li> <li>(a) Al Gore/अल गोर</li> <li>(b) Ban-ki-Moon/बान-की-मून</li> <li>(c) Bill Clinton/बिल क्लिंटन</li> <li>(d) John Howard/जॉन हॉवर्ड</li> </ul> Ans. : (a) The Nobel Peace Prize 2007 was awarded jointly to Inter governmental Panel on climate change (IPCC) and Albert Arnold Gore.			Ans. : (b) Since 1978, the tournament has been played on acrylic hard courts at the USTA Billie Jean King National Tennis centre in Flushing Meadows Corona Park, Queens, New York City.         Four Major Grand Slam:         (1) Australian open         (2) French open         (3) Wimbledon         (4) US open <b>139. Which country won the 2006 FIFA Cup</b> (World Football Cup)? <b>2006 FIFA कप (विश्व फुटबॉल कप) कौन-से देश ने</b> जीता था?         (a) France/फ्रांस       (b) Brazil/ब्राजील         (c) Italy/इटली       (d) Germany/जर्मनी	
	eace Prize 2022 Winner		Ans. : (c) Italy won the tournament, claiming their	
Nobel P		Awarded for	fourth world cup title, defeating France 5-3 in a penalty shoot-out in the final after extra time had finished in a	
Category Peace Priz		For opcouraging	1-1 draw.	
reace riiz	Bialiatski	For encouraging the right to	• Argentina has won the FIFA World cup 2022 by	
	2. Memorial	criticize power	defeating France in the Penalty shootout by 4-2.	
	Human Right		140. Consider the following plants: निम्नलिखित पादपों पर विचार कीजिए	
	Organization (Russia)	citizen's fundamental	1. Jasmine/चमेली	
	3. Center for	rights.	2. Sugarcane/गन्ना	
	civil		3. Turmeric/हल्दी	
	Liberties		Which of the above is/are propagated by	
	Human Right		vegetative method?	
	organisation		उपर्युक्त पादपों में से कौन-सा∕से वानस्पतिक विधियों से पनर्शित किन्म नगम ैं ∕ किम नगने हैं?	
	(Ukrainian)		से प्रवर्धित किया जाता है∕ किए जाते हैं? (a) 1 only/केवल 1	
	ently, in which on	_	(a) 1 only/केवल 1 (b) Both 1 and 2/1 और 2 दोनों	
	ntries did a large nur		(c) Both 2 and $3/2$ और 3 दोनों	
protest marches against the government?			(d) 1, 2 and 3/1, 2 और 3	
हाल ही में, निम्नलिखित में से किस एक देश में बड़ी संख्या में मठवासियों (मॉन्क) ने सरकार के विरूद्ध			Ans. : (d) Jasmine, Sugarcane and Turmeric Plants are	
	ध प्रदर्शित किया?	) न सरकार के जिल्ल्झ	produced by the use of piece of the stem called sets or	
	20		cutting of the plant that contain at least one node. These cuttings contain a node because when placed and	
	`	, i	covered in the ground these hides will give rise to the	
· · ·	Myanmar/म्यांमार (d	<i>`</i>	Primary roots.	
	) Recently in Mayanma	-	• Vegetative propagation is known to be the formation and growth of a new plant by asexual	
	de protest marches agai Aung Sang Su ki. The p	-	means or by a fragment of a plant.	
	cision of the national m		• The propagation takes place without gamete	
remove su	bsidies on the sales pric	es of fuel.	formation and fertilization.	
138. In which city is the Flushing Meadow. Corona			• Examples of vegetative propagation are the rhizome of ginger, the tuber of the potato, guava tree, etc.	
Park-the venue of US open Tennis Tournament			141. In human body which one among the following	
located? यूएस ओपन टेनिस टूर्नामेंट का स्थल फ्लशिंग मेडोस-			is the largest in size?	
	ने आपने टोनस टूनामेंट फ ोना पार्क कौन-से नगर में		मानव शरीर में निम्नलिखित में से कौन-सा एक,	
काराना पाक कान-स नगर में अवस्थित हु? (a) Chicago/शिकागो			वृहत्तम आमाप का है?	
	New York/न्यूर्याक		(a) Thyroid/अवटुग्रन्थि (थाइरॉइड)	
			<ul> <li>(b) Liver/यकृत</li> <li>(c) Pancreas/अग्न्याशय</li> </ul>	
			(c) Pancreas/अग्न्याशय (d) Spleen/प्लीहा	
	-			
NDA & NA Exam 2008 (I) 29 YCT				

Ans. : (b) Liver is the largest internal organ of the human 144. Which one of the following insects spreads Kala-azar? body whereas the skin is the largest organ of the body. निम्नलिखित में से कौन-सा एक कीट कालाअजार • Liver is specified as the metabolically complicated organ फैलाता है? in the human body since it performs functions. It is found below the ribs and the lungs in the upper right (a) Fruit fly/फल मक्खी corner of the abdomen. Liver is the solid organ that (b) Tsetse fly/सी-सी मक्खी weights approximately 1.6 kg which is greater than the (c) Sand fly/सिलका मक्खी weight of all the other internal organs of the human (d) Mosquito/मच्छर body. Ans. : (c) Kala-azar which is also known as Liver secretes bile juice and proteins. Leishmaniasis is an infection by a parasite (protozoan) 142. Which one of the following glands in human Leishmania donovani. The vector for this parasite is body enlarges due to goiter? sand fly, which transmits disease by biting. This disease मानव शरीर में गलगण्ड (ग्वाइटर) के कारण lasts for a longer period and can be a lethal parasitic निम्नलिखित में से कौन-सी ग्रन्थि बढ जाती है? disease that influences important organs such as the liver, spleen, bone morrow and secondary circulation (a) Adrenal cortex system. अधिवृक्क बल्कुट (एड़ीनल कॉर्टेक्स) 145. Which one of the following diseases is caused (b) Adrenal medulla by bacteria? अधिवृक्क मध्यांश (एडीनल मेड्यूला) निम्नलिखित में से कौन-सा एक रोग जीवाणू के (c) Pituitary/पीयूष कारण होता है? (d) Thyroid/अवट्य्रन्थि (थाइरॉइड) (a) Chicken Pox/छोटी माता Ans. : (d) Thyroid glands in human body enlarged due (b) Poliomyelitis/पोलियो to Goiter. Goiter is caused due to deficiency of iodine. (c) Influenza/इन्फ्ल्युएन्जा Thyroid disease is of two types namely: (d) Tuberculosis/तपेदिक (i) Hyperthyroidism Ans.: (d) Tuberculosis is an air borne disease cause by (ii) Hypothyroidism the bacterial species Mycobacterium tuberculosis that Pituitary gland (also known as hypothesis) is a most often affects out lungs. small pea-sized gland located at the base of the Polio is an infectious disease caused by a virus that • brain below hypothalamus. It sits in its own little can spread from person to person and cause chamber under brain known as the sella turcica. It's paralysis a part of endocrine system and is in charge of Influenza is commonly known as flu. It is a making several essential hormones. contagious respiratory illness caused by influenza virus. It is an infection of the nose, throat, and lungs. From the evolutionary point of view, which one 143. among the following is the most primitive Chickenpox is an infection caused by the varicellaanimal? zoster virus. It causes an itchy rash with small, fluid विकासवादी दृष्टिकोण से, निम्नलिखित में से कौन-सा filled blisters. Which one among the following is blind? 146. एक. सर्वाधिक आदिम जन्त है? निम्नलिखित में से कौन-सा एक, अन्धा होता हैं? (a) Dolphin/डॉल्फिन (a) Bat/चमगादड (b) Otter/ऊदबिलाव (b) Echidna/एकिड्ना (c) Turtle/कूर्म (कछुआ) (c) Flying squirrel/उद्डयन गिलहरी (d) Walrus/वालरस (d) Slow Loris/स्लो लोरिस Ans.: (c) According to the evolutionary point of view Ans. : (a) Generally bats are not blind, but still their there is no new creation of any of the various types of ears are more important than their eyes, because bats are organism currently exists in nature. They all originated nocturnal creatures, which hung with the help of sound at one time or another from relatively simple ancestors, wave in the dark of night. Bats can hear sound wave as a result of the accumulation of slight changes over ranging from 2 Hz to 20,000 Hz. Bats create a special generations. Tortoise (Kurma) is the most primitive type of sound in the environment, which produces animal among the above options. sound wave in the air, these waves collide with an Its origin is believed to the 15.7 (Middle Jurassic obstacle and reach back to the bat. Through this, the bat period) million years ago, which is earlier than snakes gets to know the exact position of an obstacle. Bat is and crocodiles. only mammal that can fly.

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press	ure.	ogh = Constant.	• H Pa	lowever 40% cc	tton producing area became area of India was forced to import raw
<ul><li>gravitational potential energy.</li><li>It says that when a fluid is flowing horizontally, the points where the speed is higher exhibit low pressure, while the points where the speed is lower exhibit high</li></ul>				artition, out of	4 cotton mills in India before 5 this 14 mills went to Pakistan. nills which were left in India.
<b>Ans.</b> : (a) Bernoulli's Principle provides the relationship between the pressure (p) of fluid flowing at a height (h) of the container having kinetic and gravitational potential energy.			cottor		of India in 1947 affected Indian y. Most of the weavers who were Pakistan.
<b>A</b>		रखने के लिए बल आवश्यक होता है।		• (a) <b>D</b> = ('('	उगाने वाले क्षेत्र रह गए थे।
	Reason (R): कारण (R):	motion of the liquid against friction. घर्षण के विरुद्ध द्रव की गति को बनाए		कारण (R) :	the cotton growing areas. अधिकांश वस्त्र मिलें पश्चिमी पाकिस्तान में जा चुकी थीं, भारत में केवल कपार
	Reason (R):	कमी आती है। Force is required to maintain the		Reason (R) :	Most of the cotton mills had gone to West Pakistan, India retaining
	कथन (A):	horizontal pipe, there is a fall in pressure of water along the pipe. जब जल एक समान क्षैतिज नली में बहता है, तो नली में जल के दाब में		कथन (A) :	after the independence. स्वतन्त्रता प्राप्ति के बाद ही भारत में वस् उद्योग में बड़ी मन्दी आ गई।
148.		परन्तु R सही है When water flows in a uniform	150.	Assertion (A):	The cotton industry in India suffered a major recession soor
	(d) A is false,	but R is true		ulb is less than ot correct.	that of room temperature bulb is
	(c) A is true,	but R is false नरन्तु R गलत है		•	e resistance of incandescent light
	A और R स्पष्टीकरण न	दोनों सही हैं, और R, A का सही ाहीं है	joule)	law of heating	g H = $I^2$ Rt. So, more heat means ges of filament melting.
	not the co	rrect explanation of A	More	Л	more the heat dissipated (given by
	हैं, और R,	A का सही स्पष्टीकरण है nd R are individually true but R is	·:	$R = \frac{\rho \ell}{\Lambda}$	
	(a) Both A an	nd R are individually true and R is t explanation of A/A और R दोनों सही	sectio		nufacturing defect, then the cross- less at that point. Lesser the area,
चुनिए Code					ment is not uniform at a particular
कहा ग कर इन	गया है। इन दोनों न प्रश्नांशों का उ	ं वक्तव्यों का सावधानीपूर्वक परीक्षण त्तर नीचे दिए हुए कूट की सहायता से		कारण (R):	पोपी प्रकाश बल्ब को प्रतिरोध से का तापमान वाले बल्ब के प्रतिरोध से का होता है।
the answer to these items using the code given below: निर्देश (प्रं. सं. 148-150)-आगामी तीन प्रश्नांशों में दो वक्तव्य हैं। एक को 'कथन (A)' तथा दूसरे को 'कारण (R)'					is less than that of bulb at roon temperature. दीप्त प्रकाश बल्ब का प्रतिरोध, का
to exa	amine these tw	he other as 'Reason (R)'. You are o statements carefully and select		Reason (R):	न हो, तो इसकी आयु कम हो जाती है। Resistance of glowing light bull
Directions: Each of the next THREE items consists of two statements, one labelled as the				कथन (A) :	यदि प्रकाश बल्ब का फिलामेंट एकसमान
<b>Ans. : (d)</b> Orange Revolution was a series of protests and political events that took place in Ukrain from late November 2004 to January 2005.			of wa	ter.	If the filament of a light bulb is not uniform, its life is shortened.
(c) Turkey/तुर्की (d) Ukraine/यूक्रेन				pressure inside the horizontal pipe reduces. To external force using pump/motor is needed to maintain the flow	
	(a) Brazil/ब्राउ	α.		e to frictional fo	rce in the pipe, the speed as well as
	एक देश से सम्ब	(रिवोल्यूशन) निम्नलिखित में से किस ग्द है?		-	f the container. tion due to gravity.
		(रिवल्यिशन) निम्नलिखित में से किस		h - Haisht a	files southing an

# Union Public Service Commission NDA & NA 2008 (II) National Defence Academy & Naval Academy General Ability Test (GAT)

Solved Paper with Detailed Explanation [Exam Date: 17.08.2008

<ul> <li>Meaning of other words-</li> <li>i) Distract means to divert or to draw away.</li> <li>ii) Intrigue means make secret plan to harm, make someone very interested to known more.</li> <li>iii) Perspective means a way of thinking about and understanding something.</li> <li><b>2.</b> HOSPITABLE <ul> <li>(a) Convivial</li> <li>(b) Liberal</li> <li>(c) Congenial</li> <li>(d) Welcoming</li> </ul> </li> <li>Ans. (d) : The word 'Welcoming' is the correct synonym of 'Hospitable'. Both words have same meaning i.e. kind to visitors.</li> <li>Meaning of other options-</li> <li>i) Convivial means happy and friendly in a atmosphere or character.</li> <li>ii) Liberal means kinds of behaviour, tolerant.</li> <li>iii) Congenial means friendly and enjoying the company</li> </ul>	that to be
of others.3. GAIETY (a) Dexterity (b) Wonder (c) Colourfulness (d) JollityAns. (d) : The word 'Jollity' is the correct of 'Gaiety'. Both words means feeling of happiness. 	et and one of tym of e than l and
(c) False     (d) Foreign       NDA & NA Exam 2008 (II)     32	VCT

ORD		
	ERING OF WORDS IN A SENTENCE	14. The journalist (P) /saw(Q) /countless number of
	Directions (For the 8 items which follow) : In	
	the following items, some parts of the sentence	
	have been jumbled up. You are required to	sequence?
	rearrange these parts which are labeled (P),	, (a) $P - Q - S - R$ (b) $P - Q - R - S$
	(Q), (R) and (S) to produce the correct	
	sentence. Choose the proper sequence and	Ans. (c) The correct sequence of these jumbled parts are
	mark in your Answer Sheet accordingly.	PSQR.
Example 'Z' has been solved for you.		15. Jane planned (P)/some stamps (Q) /to buy(R)
	The effect (P)/ is very bad(Q)/ on children of	f /this afternoon(S)
	(R)/ of cinema(S)	Which one of the following is the correct
	Which one of the following is the correct	t sequence?
	sequence?	(a) $P - R - Q - S$ (b) $P - S - Q - R$
	(a) $P - S - R - Q$ (b) $S - P - Q - R$	(c) $Q - R - P - S$ (d) $Q - S - P - R$
	(c) $S - R - P - Q$ (d) $Q - S - R - P$	Ans. (a) : The correct sequence of these jumbled parts
	Explanation :	are PRQS.
	The proper way of writing the sentence is "It is	
	well-known that the effect of cinema on	
	children is very bad." This is indicated by the	when she was(r) /hardiy lour years old(Q)
	sequence $P - S - R - Q$ and so (a) is the correct	/Degan to teach Nena(K) /English(S)
	answer.	which one of the following is the correct
10.	It is a privilege	sequence?
	to pay tax(P)/of every citizen(Q)/as well as the	(a) $R - S - Q - P$ (b) $S - R - P - Q$
	duty(R)/who is well-placed(S)	(c) K - S - 1 - Q $(d) S - K - Q - 1$
	Which one of the following is the correct	Ans. (c) : The correct sequence of these jumbled parts
	sequence?	ure Roi Q.
	(a) $R - P - S - Q$ (b) $S - P - R - Q$	17. Bill had(P) /a friend(Q) /an appointment(R) /te
		meet(S)
	(c) $R-Q-S-P$ (d) $S-Q-R-P$	Which one of the following is the correct
	(c) : The correct sequence of these jumbled parts	***1******
are R		(a) $P - S - R - Q$ (b) $P - R - S - Q$
11.	It is not good	$(c) Q-S-R-P \qquad (d) Q-R-S-P$
	the wicked persons(P)/ to overthrow(Q)/ to	Ans. (b) : The correct sequence of these jumbled parts
	accept (R)/ the righteous persons(S)	are PRSQ.
	Which one of the following is the correct	ANTONYMS
		• ANTONYMS
	sequence ?	
	(a) $R - S - Q - P$ (b) $Q - S - R - P$	Directions (For the 9 items which follow) a Each of the following nine items consists of a
	(a) $R - S - Q - P$ (b) $Q - S - R - P$ (c) $R - P - Q - S$ (d) $Q - P - R - S$	Directions (For the 9 items which follow) = Each of the following nine items consists of a word in capital letters, followed by four words.
	(a) $R-S-Q-P$ (b) $Q-S-R-P$ (c) $R-P-Q-S$ (d) $Q-P-R-S$ (c) : The correct sequence of these jumbled parts	Directions (For the 9 items which follow) Each of the following nine items consists of a word in capital letters, followed by four words. Select the word that is further in meaning to
Ans. are R	(a) $R-S-Q-P$ (b) $Q-S-R-P$ (c) $R-P-Q-S$ (d) $Q-P-R-S$ (c) : The correct sequence of these jumbled parts	Directions (For the 9 items which follow) Each of the following nine items consists of a word in capital letters, followed by four words. Select the word that is further in meaning to the word in capital letters.
are R	(a) $R-S-Q-P$ (b) $Q-S-R-P$ (c) $R-P-Q-S$ (d) $Q-P-R-S$ (c) : The correct sequence of these jumbled parts PQS.	Directions (For the 9 items which follow) Each of the following nine items consists of a word in capital letters, followed by four words. Select the word that is further in meaning to
are R	(a) $R-S-Q-P$ (b) $Q-S-R-P$ (c) $R-P-Q-S$ (d) $Q-P-R-S$ (c) : The correct sequence of these jumbled parts PQS. Life is judged	Directions (For the 9 items which follow) Each of the following nine items consists of a word in capital letters, followed by four words. Select the word that is further in meaning to the word in capital letters. 18. EPHEMERAL
are R	(a) $R-S-Q-P$ (b) $Q-S-R-P$ (c) $R-P-Q-S$ (d) $Q-P-R-S$ (c) : The correct sequence of these jumbled parts PQS. Life is judged and not by(P) /of work done(Q) /the longevity	Directions (For the 9 items which follow) Each of the following nine items consists of a word in capital letters, followed by four words. Select the word that is further in meaning to the word in capital letters. 18. EPHEMERAL
are R	(a) $R-S-Q-P$ (b) $Q-S-R-P$ (c) $R-P-Q-S$ (d) $Q-P-R-S$ (c) : The correct sequence of these jumbled parts PQS. Life is judged and not by(P) /of work done(Q) /the longevity of years(R) / by the quality(S)	<ul> <li>Directions (For the 9 items which follow) Each of the following nine items consists of a word in capital letters, followed by four words. Select the word that is further in meaning to the word in capital letters.</li> <li>18. EPHEMERAL <ul> <li>(a) Temporal</li> <li>(b) Stable</li> <li>(c) Permanent</li> <li>(d) Earthfully</li> </ul> </li> </ul>
are R	(a) $R-S-Q-P$ (b) $Q-S-R-P$ (c) $R-P-Q-S$ (d) $Q-P-R-S$ (c) : The correct sequence of these jumbled parts PQS. Life is judged and not by(P) /of work done(Q) /the longevity of years(R) / by the quality(S) Which one of the following is the correct	<ul> <li>Directions (For the 9 items which follow) Each of the following nine items consists of a word in capital letters, followed by four words. Select the word that is further in meaning to the word in capital letters.</li> <li>18. EPHEMERAL         <ul> <li>(a) Temporal</li> <li>(b) Stable</li> <li>(c) Permanent</li> <li>(d) Earthfully</li> </ul> </li> <li>t Ans. (c) : The word 'Ephemeral' means lasting or used</li> </ul>
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are R	<ul> <li>(a) R-S-Q-P</li> <li>(b) Q-S-R-P</li> <li>(c) R-P-Q-S</li> <li>(d) Q-P-R-S</li> <li>(e) Correct sequence of these jumbled parts PQS.</li> </ul> Life is judged and not by(P) /of work done(Q) /the longevity of years(R) / by the quality(S) Which one of the following is the correct sequence ? <ul> <li>(a) Q-S-P-R</li> <li>(b) S-Q-R-P</li> </ul>	<ul> <li>Directions (For the 9 items which follow) Each of the following nine items consists of a word in capital letters, followed by four words. Select the word that is further in meaning to the word in capital letters.</li> <li>18. EPHEMERAL <ul> <li>(a) Temporal</li> <li>(b) Stable</li> <li>(c) Permanent</li> <li>(d) Earthfully</li> </ul> </li> <li>t Ans. (c) : The word 'Ephemeral' means lasting or used for only a short period of time. So, from the given</li> </ul>
are R 1 <b>2.</b>	<ul> <li>(a) R-S-Q-P</li> <li>(b) Q-S-R-P</li> <li>(c) R-P-Q-S</li> <li>(d) Q-P-R-S</li> <li>(e) The correct sequence of these jumbled parts PQS.</li> </ul> Life is judged and not by(P) /of work done(Q) /the longevity of years(R) / by the quality(S) Which one of the following is the correct sequence? <ul> <li>(a) Q-S-P-R</li> <li>(b) S-Q-R-P</li> <li>(c) Q-S-R-P</li> <li>(d) S-Q-P-R</li> </ul>	<ul> <li>Directions (For the 9 items which follow) = Each of the following nine items consists of a word in capital letters, followed by four words. Select the word that is further in meaning to the word in capital letters.</li> <li>18. EPHEMERAL <ul> <li>(a) Temporal</li> <li>(b) Stable</li> <li>(c) Permanent</li> <li>(d) Earthfully</li> </ul> </li> <li>t Ans. (c) : The word 'Ephemeral' means lasting or used for only a short period of time. So, from the given options its antonym is 'Permanent' which means lasting for a long time or forever.</li> </ul>
are R 2. Ans.	(a) $R-S-Q-P$ (b) $Q-S-R-P$ (c) $R-P-Q-S$ (d) $Q-P-R-S$ (c) : The correct sequence of these jumbled parts PQS. Life is judged and not by(P) /of work done(Q) /the longevity of years(R) / by the quality(S) Which one of the following is the correct sequence? (a) $Q-S-P-R$ (b) $S-Q-R-P$ (c) $Q-S-R-P$ (d) $S-Q-P-R$ (d) : The correct sequence of these jumbled parts	<ul> <li>Directions (For the 9 items which follow) Each of the following nine items consists of a word in capital letters, followed by four words. Select the word that is further in meaning to the word in capital letters.</li> <li>18. EPHEMERAL <ul> <li>(a) Temporal</li> <li>(b) Stable</li> <li>(c) Permanent</li> <li>(d) Earthfully</li> </ul> </li> <li>t Ans. (c) : The word 'Ephemeral' means lasting or used for only a short period of time. So, from the given options its antonym is 'Permanent' which means lasting for a long time or forever.</li> <li>Meaning of other words-</li> </ul>
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Magning of other words	25 DENILIDY
Meaning of other words– (i) Doubtful means unlikely uncertain; not sure.	25. PENURY (a) Education (b) Laziness
(ii) Sincerely means honestly or in a truthful wag.	(c) Wealth (d) Ignorance
	Ans. (c) : The word 'Penury' means lack of something
(iii) Faithfully means in a loyal way or way that can be trusted.	(money etc). From the given options, its antonym is
	Wealth' which means a lot of money, property etc.
<b>20. CIRCUMSPECT</b> (a) Careless (b) Pusillanimous	26. INHIBIT
	(a) Pamper (b) Breed
	(c) Accept (d) Promote
Ans. (a) : The word 'Circumspect' means very carefully.	Ans. (c) : The word 'Inhibit' means forbid. From the
From the given options, its antonym is 'careless' means free from care.	given options its antonym is 'Accept'.
	Means of other options-
Meaning of other options- i) Pusillanimous means not brave or fearful or afraid.	(i) Pamper means to take care or make him/her feel
·	comfortable.
	(ii) Breed means reproduce.
(iii) Hostile means relating to an enemy, unfriendly, not like something.	(iii) Promote means to encourage something or to raise
	to a higher position or rank.
21. REPULSIVE	whether they belong to the higher
(a) Attractive (b) Colourful	groups such as human beings or to the lower groups
(c) Unattractive (d) Striking	such as animals, all beings primarily seek peace,
Ans. (a) : The word 'Repulsive' means not attractive or	comfort and security. Life is as dear to a mute
strong feeling of disgust. From the given options its	creature as it is to a man. Even the lowliest insect
antonym is 'Attractive' which, means pleases or interests	strives for protection against dangers that threaten its life. Just as each one of us wants to live and not to die,
you. Meaning of other options-	so do all other creatures.
(i) Striking means very noticeable, making a strong	I. The author's main point is that
impression.	(a) different forms of life are found on earth
22. KINDLED	(b) different levels of existence are possible in
(a) Extinguished (b) Reduced	nature
(c) Weakened (d) Ignited	(c) peace and security are the chief goals of all
Ans. (a) : The word 'Kindled' means to start a fire.	living beings
	(d) even the weakest creature struggles to
From the given options its antonym is 'Extinguished' means to cause something to stop burning.	preserve its life
Meaning of other options-	J. Which one of the following assumptions or step
(i) Reduced means to make something less or smaller.	is essential in developing the author's position ?
(ii) Weakened means less strong.	(a) All forms of life have a single overriding
(iii) Ignited means to start burning.	goal (b) The will to survive of a creature is
23. OBSCURE	identified with a desire for peace
(a) Suitable (b) Apt	(c) All beings are divided into higher and
(c) Thalamus (d) Clear	lower groups
	(d) A parallel is drawn between happiness and
<b>Ans. (d) :</b> The word 'Obscure' means not easy to see or understand; not well known. So, from the given options	life, and pain and death
its antonym is 'Clear'.	Explanation :
Meaning of other options-	I. The idea which represents the author's main
(i) Suitable means right or appropriate.	point is "peace and security are the chief goals
(ii) Apt means suitable in a particular situation.	of all living beings", which is response (c). So
(iii) Thalamus is a part of a brain.	(c) is the correct answer.
24. VITAL	J. The best assumption underlying the passage is "The will to survive of a creature is identified
(a) Trivial (b) Peripheral	with a desire for peace," which is response (b).
(c) Optional (d) Superficial	So (b) is the correct answer.
	PASSAGE I
<b>Ans. (a) :</b> The word 'Vital' means very important or necessary. From the given options its antonym is	We have built up an energy intensive society such
'Trivial' which means a little important or unimportant.	that hundreds of daily acts are dependent on having energy
Meaning of other options-	at our ready command. Most of that energy comes from
(i) Peripheral means marginal of secondary or minor	fossil fuels, Yet, within two centuries we will have used
importance.	up nearly all of the fossil fuel that has been built up over millions of years of earth time. Furthermore, the extraction
(ii) Superficial means only on the surface not deep.	millions of years of earth time. Furthermore, the extraction and consumption of fossil fuels is a major polluter of our
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environment. Our appetite for energy is seemingly insatiable. We are now searching for it in different places and using methods that inevitably upset and pollute the environment. Since fossil energy will soon be gone we are searching for alternative sources.

- 27. Today we are dependent on energy for everything. What is the most likely factor that contributes to this situation?
  - (a) Sufficient quantity of energy is available at present
  - (b) We have developed a society which makes intensive use of energy
  - (c) Energy is most convenient and easy to use
  - (d) We have no alternatives

**Ans. (b) :** This is clear from the first sentence of the given passage that option (b) "we have developed a society which makes intensive use of energy" is the correct answer.

- 28. The author seems to disapprove further extraction and consumption of fossil fuels. Which of the following is the most likely reason for that ?
  - (a) Further extraction of fossil fuel is a costly affair
  - (b) Further extraction and consumption of fossil fuel may lead to conflict between countries.
  - (c) We do not have the technical known how for further extraction of fossil fuels
  - (d) Further extraction and consumption of fossil fuels will lead to world-wide environmental pollution

**Ans. (d) :** From the given passage, it is clear that option (d) is the correct answer.

- 29. According to the author, we are searching for alternative sources of energy. What is the most likely reason for this ?
  - (a) Alternative sources of energy are cheaper
  - (b) It is feared that fossil energy will soon be exhausted
  - (c) A number of alternative energy sources are easily available
  - (d) Alternative sources of energy will not cause any environmental problems.

**Ans. (b) :** This is clear from the last lines of the given passage that it is feared that fossil energy will soon be exhausted.

#### PASSAGE II

Books are, by far, the most lasting product of human effort. Temples crumble into ruins. Pictures and statues decay, but books survive. Time does not destroy the great thoughts which are as fresh today as when they first passed through their author's minds ages ago. The only effect of time has been to throw out of currency the bad products for nothing in literature can long survive but what is really good and of lasting value. Books introduce us into the best society; they bring us into the presence of the greatest minds that have ever lived, we hear what they said and did; we see them as if they were really alive, we sympathies with them, enjoy with them and grieve with them.

# 0. According to the passage, books live for ever because

- (a) They have productive value
- (b) Time does not destroy great thoughts
- (c) They are in printed form

(d) They have the power to influence people

**Ans. (b) :** From the given passage it is clear that option (b) is the appropriate answer.

# 31. According to the passage, temples, pictures and statues belong to the same category because

- (a) All of them are beautiful
- (b) All of them are substantial
- (c) All of them are likely to decay
- (d) All of them are fashioned by men

**Ans. (c) :** From the given passage, option (c) is appropriate answer.

#### 32. "Lasting value" in the passage means

- (a) Something which has survival the passage of time
- (b) Something which has been lose with the passage of time
- (c) Something which has relevance for the present
- (d) Something which had relevance for the past

**Ans. (a) :** From the given passage option (a) is the correct answer.

#### PASSAGE III

The pre-historic man perferred this area as three of his primary needs - water raw material for tool making and game in the thick jungles, were available here in plenty. Mr. Sharma found sites on top of hills where huge boulders have been cut flat. These flat rocks were found in a found formation. Probably they sat on these and there was a fire in the middle. It was also a site where the tools were made. It was like a national pastime. They made tools to throw at animals. There was little chance of killing them with one tool. Mr. Sharma says there are strong chances of finding fossils in the area.

#### **33.** Mr. Sharma is most probably working as

- (a) A Civil Engineer (b) A Geographer
  - (c) An Archaeologist (d) A Tourist officer

**Ans.** (c) : From the given passage option (c) is the correct answer.

## 34. "There was little chance of killing them with one tool" implies that

- (a) The animals were too clever
- (b) The men did not known how to hunt
- (c) The tools were not sophisticated enough
- (d) The hunters wanted to use more than one tool

**Ans. (c) :** From the given passage Option (c) is the correct answer.

- 35. Which of the following does not describe the activities of the man as mentioned in the passage?
  - (a) Hunting animals(b) Lighting fires(c) Cutting stones(d) Cultivating land
- **Ans. (d) :** From the given passage, cultivated land is not discussed. So, option (d) is correct answer.

<b><u>PASSAGE IV</u></b> A whole generation of Indians gave up everything and spent their lives in fighting the British in Gandhi's		
way without hurting, without violence, without hatred. The hope that India would one day be free kept them going through very difficult times and gave them courage. When millions of people want the same thing very much, it is a great force which even the most powerful army cannot oppose.	<b>Ans. (b)</b> There is an error in clause (b) of the given sentence 'running temperature' because it is an idiomatic use which means to have a fever. So the correct sentence is- 'I informed the principal that I was running a temperature and therefore could not attend the meeting'.	
<ul><li>36. The demand for freedom became a 'great force'. What is the most likely reason for it?</li><li>(a) Great leaders gave the call for freedom</li></ul>	39. The lady was broken with grief (a) /when she heard the sad news of the train disaster(b) /in which her brother was killed(c) /No error.(d)	
<ul> <li>(b) Millions of people wanted to get freedom</li> <li>(c) The British rule did not permit any freedom</li> <li>(d) Freedom is a noble ideal</li> </ul> Ans. (b) : From the given passage option (b) is correct answer. 37. Which is the 'most powerful army' referred to	Ans. (a) : There is an error in clause (a) of the given sentence. 'Has broken' will be used in place of 'was broken'. The verb should be in the past perfect tense because the action 'killed' had taken place before she heard the news. So, the correct sentence is- "The lady has broken with grief when she heard the sad news of	
<ul><li>(a) The powerful army of the Government of India</li></ul>	the train disaster in which her brother was killed".	
<ul><li>(b) The powerful army of the British</li><li>(c) Any powerful army fighting against the wishes of millions of people</li><li>(d) The army formed by the freedom fighters</li></ul>	this sentence use 'since' which shows that the sentence is in present perfect continuous tense. In present perfect	
<b>Ans. (b) :</b> From the given passage, option (b) is correct answer.	continuous tense has/have been used as a auxiliary verb. So, the correct sentence is- 'The farmer has been irrigating his fields since morning'.	
• SPOTTING ERRRORS Directions (For the 5 items which follow) :	41. I could not(a) /answer to(b) /the question(c) /No error.(d)	
(i) In this section a number of sentences are given. The sentences are underlined in three separate parts and each one is labeled (a), (b) and (c). Read each sentence to find out whether there is an error in any underlined part. No sentence has more than one error. When you find an error in any one of	<ul><li>Ans. (b) There is an error in clause (b) of the given sentence, 'To' is not used after the verb.</li><li>Rule: Infinitive 'to' is not used after the verb.</li><li>So, the correct sentence is - 'I could not answer the</li></ul>	
the underlined parts (a), (b) or (c) indicate your response on the separate Answer Sheet at the	42. Two years passed (a) /since(b) /my cousin	
appropriate space. You may feel that there is no error in a sentence. In that case letter (b) will signify a 'No error' response.		
(ii) You are to indicate only one response for each item in your Answer Sheet. (If you indicate more than one response, your answer will be considered	So, the correct sentence is- 'Two years have passed since my cousin died'.	
<ul><li>wrong.) Errors may be in grammar word usage or idioms. There may be a word missing or there may be a word which should be removed.</li><li>(iii) You are not required to correct the error. You are</li></ul>	Directions (For the 8 items which follow) : In the following items, each passage consists of six sentences. The first sentence $(S_1)$ and the final sentence $(S_6)$ are	
required only to indicate your response on the Answer Sheet. Examples 'P' and 'Q' have been solved for you.		
<ul><li>P. The young child(a) /singed(b) /a very sweet song(c) /No error(d)</li><li>Q. The young child(a) /very hard(b) /throughout</li></ul>	accordingly on the Answer Sheet.	
the season(c) /No error(d)	<b>X.</b> $S_1$ : There was a boy named Jack. $S_6$ : At last she turned him out of the house.	
Explanation : In item P, the word 'singed' is wrong. The letter	P: So the mother asked him to find work.	
under this part is (b); so (b) is the correct answer. Similarly, for item Q, (d) is the correct answer, as the sentence does not contain any error.		

Which one of the following is the correct 46. sequence?

- (a) R Q P S (b) P Q R S
- (c) Q P R S (d) R P S Q

**Explanation :** The correct sequence in this example is R - Q - P - S which is marked by (a). Therefore, (a) is the correct answer.

- 43. S<sub>1</sub>: When you have to study for examination, you have many things to do.
  - S<sub>6</sub>: The final aim, of course, is to pass the examinatin that is two months away.
  - P: Suppose you have only two months to do it.
  - Q: The time table tells you what you have to do everyday and for how many hours.
  - **R** : You have to read a number of books, learn tables and formulas.
  - S: Then the best way is to make a time table for yourself.

Which one of the following is the correct sequence ?

(a) R - P - S - Q(b) S - R - Q - P(c) Q - R - S - P(d) P - S - Q - R

**Ans. (a) :** RPSQ is the correct sequence of the given sentence to form a meaningful passage.

- 44. S<sub>1</sub>: The umpire has to do a lot of hard work before qualifying to supervise a match.
  - S<sub>6</sub>: So an umpire must keep abreast of time and apply the rules as occasion demands.
  - P: However, umpires are human and are sometimes prone to make mistakes.
  - Q: The rules of the game are being constantly changed.
  - **R**: The players should gracefully and sportingly accept these mistakes.
  - S: He is aware of the responsibilities that go with the job.

Which one of the following is the correct sequence ?

(a) Q - P - R - S (b) S - P - R - Q

(c) S - R - P - Q (d) Q - R - P - SAns. (b) : SPRO is the correct sequence of the given

sentence to form a meaningful passage.

- 45. S<sub>1</sub>: Mohan came to the city to meet a friend.
  - $S_6$ : He should not have behaved so rudely.
  - **P**: Mohan asked her to join them for tea.

Q: Mohan's friend who had some grudge against Sheila quickly got up and left the restaurant without saying a word.

- **R**: While they were having tea at a restaurant Sheila, a former fellow student of theirs, came in.
- S: Though Sheila knew Mohan's friend was a bad fellow, she accepted the invitation.

Which one of the following is the correct sequence ?

- (a) P R S Q (b) R P S Q
- (c) P R Q S (d) R P Q S

```
Ans. (b) : RPSQ is the correct sequence of the given sentence to form a meaningful passage.
```

NDA & NA Exam 2008 (II)

- S<sub>1</sub>: When the Romans invaded Britain about 2,000 years ago, their calendar was calculated on the phases of the moon.
- $S_6$ : The astronomer's name was Sosigenes and his calendar had a year of 365 days.
- P: This calendar had gradually become so out of line with the seasons that it was two or three months behind.
- Q: The Emperor Julius Caesar was determined to correct it.
- **R**: Caesar had been to Egypt and seen the advantages of a calendar which used only the sun.
- S: So he sought help from a Greek astronomer who lived in the Egyptian city of Alexandria.

Which one of the following is the correct sequence ?

(a) 
$$R - Q - P - S$$
 (b)  $P - Q - R - S$   
(c)  $P - S - R - Q$  (d)  $R - S - P - Q$ 

**Ans. (b) :** PQRS is the correct sequence of the given sentence to form a meaningful passage.

- 47. S<sub>1</sub> : Education is in great demand today in India.
  - S<sub>6</sub> : Things have changed considerably now.
  - P: These people were accustomed to applying their intelligence to the profession of their fathers.
  - Q: Since independence it has spread to backward classes.
  - **R** :They had no idea that they could train themselves to do something else.
  - S: Besides this training they little book learning.

Which one of the following is the correct sequence ?

(a) 
$$P - Q - R - S$$
  
(b)  $Q - P - R - S$   
(c)  $P - O - S - R$   
(d)  $O - P - S - R$ 

**Ans. (d) :** QPSR is the correct sequence of the given sentence to form a meaningful passage.

48. S<sub>1</sub>: There was once a king in India.

- S<sub>6</sub>: The three sons did not know what to do and where to go.
- P: The captain of the king's army wanted the kingdom for himself.
- **Q** : He died leaving three sons.
- **R** : The eldest of the three sons would have become the king.
- S: So he drove the three sons away and took everything in the kingdom in his possession.

Which one of the following is the correct sequence?

(a) P - R - Q - S (b) P - S - Q - R(c) Q - S - P - R (d) Q - R - P - S

**Ans. (d)** QRPS is the correct sequence of the given sentence to form a meaningful passage.

49.  $S_1$ : An old man died and left his son a lot of  $\bullet$  The 2022, (64th) Ramon Magsaysay Awardees are money. S<sub>6</sub>: He became sad and lonely. **P** : Soon he had nothing left. Q: The son was a foolish young man **R** : All his friends left him. S : He quickly spent all his money Which one of the following is the correct 52. sequence ? (a) S - Q - R - P(b) Q - S - P - R(c) S - Q - P - R(d) Q - S - R - PAns. (b) : QSPR is the correct sequence of the given sentence to form a meaningful passage. 50.  $S_1$ : Siberian crane is a migratory bird. They return to Siberia at the onset of **S**<sub>6</sub> : summer in India. **P**: They remain here for four-five months. Migrating birds are those which travel to Q: other places for a period of time and then return. **R** : They can't sustain in the severe winter of Siberia. **S** : So during winters they travel thousands of miles to reach the bird sanctuary in Rajasthan in India. Which one of the following is the correct sequence ? (a) Q - R - S - P(b) Q - P - S - R53. (c) S-R-Q-P(d) S - P - Q - RAns. (c) : SRQP is the correct sequence of the given sentence to form a meaningful passage. Section : General Knowledge 51. Who among the following was awarded to Ramon Magsaysay award in category of Journalism Literature and Creative **Communication in 2007?** निम्नलिखित में से किसे पत्रकारिता, साहित्य एवं सृजनात्मक संचार की कोटि में रेमन मैग्सेसे पुरस्कार 2007 दिया गया है? (a) A Kejriwal/ए. केजरीवाल (b) P. Sainath/पी. साईनाथ (c) L. Ramdas/एल. रामदास (d) V. Shanta/वी. शान्ता Ans: (b) Palagummi Sainath was awarded to Ramon Magsaysay award in category of journalism literature and creative communication in 2007. Ramon Magsaysay Award - it was established in 1957. It is named after the third president of the Republic of the Philippines - Ramon del fierro Magsaysay. It is considered Asia's premier prize and highest honour. It is regarded as Asia's Nobel Prize. • Till 2009, Award were traditionally given five categories: Government service, public service, community leadership, journalism, literature and creative communication arts, and peace and international understanding. Since 2009, it is also given for Emergent leadership.

(four people) Psychiatrist sothiara chhim (cambodia), ophthalmologist Tadashi Hattori (Japan), Pediatrician Bernadetter Madrid (Philippines) and activist and film producer-Gary Bencheghib (Indonesia). Former kerala health minister kk shailaja claimed that she has declined this year's (2022) Ramon Magsaysay Award. According to the International Food Policy Research institute Report 2007. India ranks which one of the following positions on the global hunger index? अन्तर्राष्ट्रीय खाद्य नीति अनुसन्धान संस्थान रिपोर्ट, 2007 के अनुसार वैश्विक भुख सूचकांक में भारत निम्नलिखित स्थानों में से किस एक पर है? (a) 94 (b) 95 (c) 96 (d) 97 Ans : (a) According to the International food policy Research institute Report 2007. India ranks 94 positions on the global hunger index. In 2022, India ranked 107 out of 121 countries in global Hunger Index. • GHI is a tool for comprehensively measuring and tracking hunger at global, regional and national levels. GHI scores are based on the values of four components indicators : undernourishment, child stunting, child wasting, child mortality. GHI is an annual report and each set of GHI scores uses data from a 5-year period. Match List-I with List-II and select the correct answer using the code given below the lists:

सूची-I को सूची-II के साथ सुमेलित कीजिए और सूचियों के नीचे दिए गए कुट का प्रयोग कर सही उत्तर चुनिए List-I (Date) List-I (Event)

	स्	्ची I (	तिथि)		List-I (Event) सूची II (घटना)
A				1.	Human Rights day मानवाधिकार दिवस
В			nber	2.	Commonwealth day/राष्ट्र मण्डल दिवस
С	24	मई		3.	United Nations day/संयुक्त राष्ट्र दिवस
D			mber	4.	International day of peace/अन्तराष्ट्रीय शान्ति दिवस
Codes: कूट:					
	Α	В	С	D	
(b)	3	1	2		
(d)	4	2	1	3	
ns : (b) Date				E	vent
24 <sup>th</sup> October		-	3. United Nations		
10 <sup>th</sup> December		-	1. Human Rights day		
$24^{th}$			-	2.Commonwealth day	
21 <sup>th</sup>	Sept	ember	-	<b>4.</b> International day of	
				pea	ace.
					УСТ
	B C D Coor (a) (b) (c) (d) : (b) 24 <sup>th</sup> 10 <sup>th</sup>	Key           A $24^{th}$ 24         24           B $10^{th}$ 10         21           C $24^{th}$ D $21^{st}$ 21         21           Codes: 7           A         (a) 4           (b) 3         (c) 3           (d) 4         24^{th}Octoo           10^{th}Decce         24^{th}May	सूची I (       A     24 <sup>th</sup> Octob       24     अक्टूबर       B     10 <sup>th</sup> Decer       10     दिसम्बर       C     24 <sup>th</sup> May       24     मई       D     21 <sup>st</sup> Septe       21     सितम्बर       Codes: कूट:       A     B       (a)     4       (b)     3       (c)     3       (d)     4       2:     (b) Date	$24$ अक्टूबर         B $10^{th}$ December $10$ दिसम्बर         C $24^{th}$ May $24$ मई         D $21^{st}$ September $21$ सितम्बर         Codes: कृट:         A       B         C $3$ 1         (a) 4 $2$ (b) 3 $1$ (c) 3 $2$ (d) 4 $2$ : (b) Date $24^{th}October$ $-10^{th}December$ $-24^{th}May$	सूची I (तिथि)         A $24^{th}$ October $24$ अक्टूबर       1.         B $10^{th}$ December       2.         10       दिसम्बर       2.         C $24^{th}$ May       3.         24 मई       3         D $21^{st}$ September       4.         21       सितम्बर       4.         Codes: कृट:         A       B       C         (a)       4       1       2         (b)       3       1       2       4         (c)       3       2       1       4         (d)       4       2       1       3         : (b) Date       E         24 <sup>th</sup> October       -       3.       U         10 <sup>th</sup> December       -       1.       Hu         24 <sup>th</sup> May       -       2.Co       21 <sup>th</sup> September       -

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<ul> <li>54. Who among the following immigrants has become Louisiana province of the Ure निम्नलिखित भारतीय मूल के प्रत 2007 में यू एस ए के लुइसियाना प्र (a) Swaraj Paul/स्वराज पाल</li> <li>(b) Laxmi Mittal/लक्ष्मी मित्तल</li> <li>(c) Vikram Pandit/विक्रम पण्डि</li> <li>(d) Bobby Jindal/बॉबी जिन्दल</li> <li>Ans : (d) Bobby Jindal Indian immathe governor of Louisiana province He served as the 55th Governor of I to 2016.</li> <li>Bobby Jindal is the first Indian Amothe 55th Governor of Louisiana.</li> <li>He previously served as a member of Representatives and chairman Governors Association.</li> <li>55. Which of the following pairs and set in the server of the following pairs and set in the server of the following pairs and set in the</li></ul>	the Governor of SA in 2007? त्रासियों में से कौन वर्ष प्रान्त का गवर्नर बना? उत nigrants has become of the USA in 2007. Louisiana from 2008 erican who served as of the U.S House of of the republican	Codes: कूट:ABCD(a)4321(b)1234(c)1324(d)4231Ans: (a)Janapith LaureateLanguage(A)Birenra kumar Bhattacharya4.Assamese $(15^{th})$ (B)Rahman Rahi (40 <sup>th</sup> )3.Kashmiri(C)Vinda karandikar (39 <sup>th</sup> )2.Marathi(D)Mahasweta Devi (32 <sup>th</sup> )1.Bengali57.Who among the following is not a Dada Saheb Phalke award? निम्नलिखित में से किसे दादा साहब फालके पुरस्कार नहीं मिला है?(a)Shyam Benegal/श्याम बेनेगल (b)Adoor Gopalakrisan/अदूर गोपालकृष्णन			
55. Which of the following pairs an निम्नलिखित में से कौन-से युग्म		(c) Mrinal Sen/मृणाल सेन			
<ol> <li>Kiran Desai : The Ir</li></ol>	ऑफ स्माल थिंग्स theritance of Loss रेटेन्स ऑफ लॉस amesake क <b>sing the codes given</b> <b>ग कर सही उत्तर चुनिए</b> 2 and 3 <u>1 and 2</u> in author which won e book 'The God of Booker prize for her ajana sudeshna is an 2000, Pulitzer prize er of Maladies'. The Lahiri that was first of select the correct below the list of कीजिए और सूचियों कर सही उत्तर चुनिए	<ul> <li>(d) J.P. Dutta/जे.पी. दत्ता</li> <li>Ans : (d) The Dadasaheb phalke Award is India's highest award in the field of cinema. It is presented annually at the National film Award Ceremony by the Directorate of film festivals, an organization set up by the Ministry of Information and Broad casting.</li> <li>The Award was instituted by the government in 1969, and consists a 'Swarna Kaml' a cash priz of 10 lakh rupees, a certificate, a silk roll and a shawl.</li> <li>The award is presented by the president of India.</li> <li>The recipient is honoured for their "outstanding contribution to the growth and development of Indian cinema"</li> <li>In 2005, this award was given to Shyam Benegal, in 2004 given to Adoor Gopalakrisan and in 2003 given to Mrinal sen. But this award is not given to J.P Dutta.</li> <li>52 recipient have received award as of 2022. The 68th dada Saheb phalke award for 2020 has been given to veteran actress Asha parekh. making her the 52nd recipient of the honour.</li> <li>58. Who among the following was the Director of the film Kaal Purush, which was adjudged as the best feature film in the 53 National Film</li> </ul>			
List-I/सूची I (Jnanpith	List-II/सूची II (Language)	सर्वश्रेष्ठ कथाचित्र के रूप में न्यायनिर्णीत की गयी, का निर्देशक था?			
Laureate)	(Language) (भाषा)	(a) Ritwik Ghatak/रित्विक घटक			
(ज्ञानपीठ पुरस्कार)ABirendraKumar1.	Bengali/बंगाली	(b) Buddhadev Dasgupta/बुद्धदेव दासगुप्ता (c) J. P. Dutta/जे.पी. दत्ता			
Bhattacharya वीरेन्द्र कुमार भट्टाचार्य	<u>0</u>	(c) 5.1. Dutta/ ज. न. २०११ (d) Asit Sen/असित सेन			
BRahman Rahi रहमान राही2.	Marathi/मराठी	<ul> <li>Ans: (b)</li> <li>The National film Award was established in 1954. In 53rd National film Award (2007), Kaal Purush was won</li> </ul>			
CVinda Karandikar3.विन्दा करंदीकर3.	Kashmiri/कश्मीरी	the Best feature film award, which was directed by Buddhadev Dasgupta.			
DMahasweta Devi महाश्वेता देवी4.	Assamese/असमिया	• Soorarai pottru (Tamil) won the best feature film award during 68th National film Award (2022).			

- 59. Which one of the following is the highest mountain peak?/निम्नलिखित में से कौन-सी एक, सर्वोच्च पर्वत चोटी है?
  - (a) Nanga Parbat/नंगा पर्वत
  - (b) Nanda Devi/नन्दा देवी
  - (c) Kanchanjunga/कंचनजंघा
  - (d) K2/के 2

**Ans : (d)** The Himalayas are new and folded mountain ranges. Most of the world's highest mountain peak are located in this ranger including the Mount Everest (8,848m), the world's highest peak.

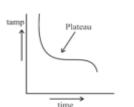
- The peaks given in the above options are also related to the Himalayan mountain range, whose heights are k-2 (8,611 m), kanchanjunga (8,598 m), Naga parbat (8, 126 m) and Nanda devi (7, 817 m) respectively.
- Therefore K<sub>2</sub> is the highest mountain peak from the given option.

60. Who among the following sports personalities is known as the payyoli Express? निम्नलिखित में से किस एक खेलकूद व्यक्तित्व को पायली एक्सप्रेस के नाम से जाना जाता है?

- (a) Shiny Abraham/शाइनी अब्राहम
- (b) P.T. Usha/पी.ਟੀ. ऊषा
- (c) Jyotirmoyee Sikdar/ज्योतिर्मयी सिकन्दर
- (d) K.M. Beenamol/के.एम. बीनामोल

**Ans : (b)** P.T Usha has been associated with Indian athletics. She is nicknamed the 'Payyoli Exprss', and 'Golden Girl. she was from calicut, kerla.

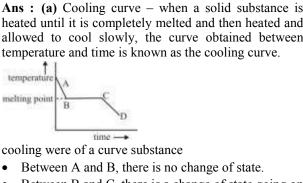
- She took six medals at the Asian championships held in Jakarta in 1985 (five gold and one bronze).
- She was won 4 Asian gold medals and 7 silver medals. she is often called "Queen of Indian track and field".
- Currently she is set to become the first woman president of IOA (Indian Olympic Association). she is also a member of Rajya sabha. P.t usha was retired in 2000 from the games.
- 61.



A solid is melted (above the melting point) and allowed to cool down at normal condition. Its variation of temperature as a function of time is as shown in the figure given above. What is the reason for the plateau (flat position) in the central region of the cooling curve as shown in the figure?

एक ठोंस को गलित किया जाता है (गलनांक के ऊपर) तथा सामान्य अवस्था पर ठण्डा किया जाता है। समय फलन के रूप में इसका ताप-विचरण ऊपर दिए गए चित्र में दर्शाए गए की तरह है। चित्र में दर्शाए गए की तरह शीतलन वक्र के मध्य क्षेत्र में प्लेटों (सपाट स्थिति) का कारण क्या है?

- (a) Latent heat of fusion of the solid
   ठोस के संगलन की गुप्त ऊष्मा
- (b) Specific heat of the solid ঠাस की विशिष्ट ऊष्मा
- (c) Thermal conductivity of the solid ठोस की ऊष्मा चालकता
- (d) Thermal capacity of the solid
   ठोस की ऊष्मा धारिता



• Between B and C, there is a change of state going on from liquid to solid due to latent heat of fusion.

- Between C and D, the substance is totally in the solid state.
- Therefore a solid is melted (above the melting point) and allowed to cool down at normal condition Latent heat of fusion was the reason for the plateau (flat position) in the central region of the cooling curve.
- Latent Heat of fusion is the heat consumed or discharged when matter melts. changing stage from solid to fluid structure at a consistent temperature.
- 62. If a body travels half the distance with velocity  $v_1$  and next half with velocity  $v_2$ , then which one of the following will be the average velocity of the body?

यदि एक पिण्ड आधी दूरी वेग v<sub>1</sub> के साथ चलता है तथा अगली आधी दूरी वेग v<sub>2</sub> के साथ चलता है, तो निम्नलिखित में से कौन-सा एक, पिण्ड का औसत वेग होगा?

(a) 
$$\sqrt{v_1 v_2}$$
 (b)  $\frac{v_1 + v_2}{2}$   
(c)  $\frac{v_2}{v_1}$  (d)  $\frac{2v_1 v_2}{v_1 + v_2}$ 

**Ans : (d)** Let us consider, the total distance covered by the body is 'D'.

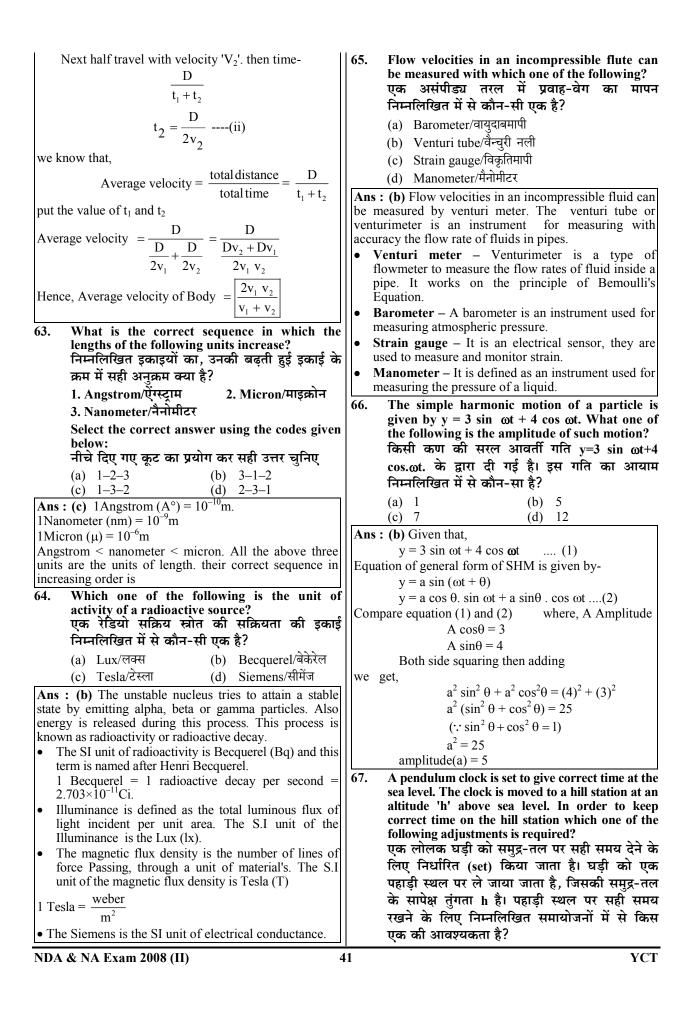
If the body travels half the distance with velocity 'v' Then time  $(t_1) = \frac{\text{Distance}}{1 + \frac{1}{2}}$ 

speed  

$$t_1 = \frac{D/2}{V_1}$$
  
 $t_1 = \frac{D}{2v_1}$ -----(i)

YCT

NDA & NA Exam 2008 (II)



Water erosion – it is the detachment, transportation (a) The length of the pendulum has to be reduced/लोलक की लम्बाई को कम करना पड़ता है and deposition of soil particles by the force of water from one place to another. There are four forms of (b) The length of the pendulum has to be water erosionincreased/लोलक की लम्बाई को बढ़ाना पड़ता है • Rain splash Erosion (c) The mass of the pendulum has to be • Sheet Erosion increased/लोलक के द्रव्यमान को बढाना पडता है • Rill Erosion (d) The mass of the pendulum has to be reduced • Gully Erosion लोलक के द्रव्यमान को कम करना पड़ता है Which of the following statements 70. is/are Ans: (a) The time period of a pendulum is given by, correct with regard to lines of latitude? निम्नलिखित में से कौन-सा⁄से कथन आक्षांश रेखाओं  $T = 2\pi \sqrt{\frac{L}{g}}$ के सन्दर्भ में सही है/हैं? They are concentric circles numbered from 1. where, L =length of the pendulum 0° to 90° g = acceleration due to gravityवे 0° से 90° तक संख्याकित संकेन्द्री वृत है। we can say that, They are circles on a globe which are 2.  $T \propto \sqrt{\frac{L}{g}}$ parallel to the Equator and which are to the North and South of the Equator वे भूमण्डल पर वृत्त हैं, जो विषुवत वृत्त के At high altitudes, the value of 'g' decreases. Since the समान्तर है ओर जो विषुवत वृत के उत्तर और time period of the pendulum will increase at high दक्षिण में हैं। altitude. In order to keep correct time on the hill station (high altitude), that is length of the pendulum has to be Select the correct answer using the code given reduced. This type of adjustment is required. below: 68. In which of the following cases ohm's law is not नीचे दिए गए कूट का प्रयोग कर सही उत्तर चुनिए valid? (a) 1 only/केवल 1 निम्नलिखित में से किस एक में ओम नियम वैध नहीं (b) 2 only/केवल 2 है? (c) Both 1 and 2/1 और 2 दोनों (a) Wire bound resistor/तार आबद्ध (d) Neither 1 nor 2/न तो 1 और न ही 2 (b) Potentiometer/विभवमापी Ans : (c) Line of latitude-It is also called parallels of (c) Junction diode/सन्धि-डायोड latitude. Because all of these lines are parallel to each other. • Latitude is the angular distance of a print north or (d) Electric bulb/विद्युत बल्ब south of the equator as measured in degrees. Ans: (c) Ohm's law – It states that the electric current All latitudes are parallel to each other. is directly proportional to the voltage. The distance between two latitude is approximately  $I \propto V$ 111 km. V = IRThe 0° latitude is referred to as the equator and 90° where, R = Resistance. as the poles. Ohm's limitation - The law is not applicable to On a globe, parallels of latitude appear as circles. unilateral network. Unilateral network allow the current Both the statement regarling to lines of latitude is to flow in one direction for e.g diode, transistor etc. correct therefore option 'c' is correct It is also not applicable to non-linear elements. For Which of the following statements is are 71. e.g. Thyristor. correct with regard to Milky Way? Therefore Ohm's law is not valid for junction diode. निम्नलिखित में से कौन-सा⁄से कथन आकाश गंगा के 69. Which one of the following is produced by rain सन्दर्भ में सही है/हैं? water action? 1. It is a spiral galaxy/यह कुण्डलिति मंदाकिनी है। निम्नलिखित में से कौन-सा एक वर्षा जल की क्रिया The solar system resides in one of its spiral 2. से बनता है? arms/सौर प्रणाली इसकी कुण्डलित भुजाओं में से (a) Gorge/महाखड्ड (b) Cliff/भृगु एक में स्थित है। (c) Gully/अवनलिका (d) Dome/गुम्बद Select the correct answer using the codes given Ans : (c) Gully Erosion – It is the removal of soil by below: running water with the formation of channels that नीचे दिए गए कूट का प्रयोग कर सही उत्तर चुनिए cannot smoothed out completely by normal cultivation. 1 only/केवल 1 (a) • It may occurs as a result in continuous and heavy rain 2 only/केवल 2 (b) fall. It also caused by mining activities and by farming (c) Both 1 and 2/1 और 2 दोनों and uncontrolled grazing practices, it breaks up soil and (d) Neither 1 nor 2/न तो 1 और न ही 2 softens the overall structure.

galaxy. light flo	In a win	ncient India, it y g in the sky.	em is a part of milky way was imagined to be a river of	<b>Ans : (b)</b> The Foucault pendulum is named for the French physicist jean Foucault, who first used it in 1851 to demonstrate the rotation of earth. This experiment is		
		named 'akash C		Foucault experiment.		
gas. • The	It is sola	a barred spiral ar system is loc	e collection of stars, dust and galaxy. ated on one of these spirals,	• In this experiment a long and heavy pendulum suspended from the high roof above a circular area was monitored over an extended time period		
		e Orion Arm.		showing that the plane of oscillation rotated.		
		h one of th ctly matched?	e following pairs is not	• Therefore, Foucault experiment is proof of Rotation of earth.		
			न-सा एक युग्म सही सुमेलित			
	ाहीं है			74. Which one of the following is the time required for the Earth to return to a given point in its		
Г		Month/	Position of Sun/	orbit with reference to fixed star, called?		
		महीना	सूर्य की स्थिति	स्थिर तारों के सन्दर्भ में पृथ्वी द्वारा अपनी कक्षा में		
(	(a)	June/जून	Midday Sun overhead at	किसी दिए गए बिन्दु पर वापस आने के लिए लिया		
	()	suno a l	Tropic of Cancer/दिन के	गया समय निम्नलिखित में से कौन-सा एक है?		
			मध्य में सूर्य कर्क रेखा पर सिर	<ul><li>(a) Lunar year/चन्द्र वर्ष</li></ul>		
			के ऊपर होता है।	(b) Solar year/सौर वर्ष		
(	(b)	December	Midday Sun overhead at	(c) Tropical year/सायन वर्ष		
		दिसम्बर	Tropic of Capricorn/दिन के	(d) Sidereal year/नक्षत्र वर्ष		
			मध्य में सूर्य मकर रेखा पर सिर	Ans : (d) Sidereal years – The time in which the earth		
			के ऊपर होता है।	completes one revolution in its orbit around the sow		
(	(c)	March/मार्च	Midday Sun overhead on Equator/दिन के मध्य में सूर्य	measured with respect to the fixed stars. The mean time		
			विषुवत रेखा पर सिर के ऊपर	of sidereal year is 365 days, 6 hours, 9 minutes and 10 seconds.		
			होता है।	Lunar year – The moon completes one revolution on		
(	(d)	September	Midday Sun overhead on	its axis in 29 day, 12 hours and 44 minutes. This period		
(	(4)	सितम्बर	Arctic Circle/दिन के मध्य में	is called (lunation). since the period of 12 such lanations		
			सूर्य उत्तरी ध्रुवीय वृत्त पर सिर	is called lunar year.		
			के ऊपर होता है।	<b>Tropical year</b> – It is time it takes the earth to complete a full orbit around the sun. It is also called solar year.		
Ans :	(d)	The equator is	an imaginary line dividing	75. Which one of the following remains constant		
			Hemisphere and southern	while throwing a ball upward?		
	Hemisphere Another imaginary line down straight through Earth connecting North Pole to South Pole is			जब एक गेंद को ऊपर की तरफ फेंका जाता है, तो		
	axis of rotation of Earth. These are called longitudes &					
lines pa	lines parallel to equator are called latitudes. One of the latitude in Northern Hemisphere is called tropic of			(a) Displacement/विस्थापन		
			one in Southern Hemisphere	(b) Kinetic energy/गतिज ऊर्जा		
			orn at $-23.5$ ° latitude.	(c) Acceleration/त्वरण		
			solstice), the sun is directly	(d) Velocity/वेग		
			Northern Hemisphere on the	Ans : (c) Acceleration due to gravity remains constant		
		of Cancer.	Vintar colation) the sum is	while throwing a ball upward. The value of acceleration		
			Vinter solstice), the sun is oon in Southern Hemisphere	due to gravity (g) is 9.8 m/sec <sup>2</sup> . It is apply in opposite		
		ropic of Caprice		direction of motion.		
			erhead at high - noon on the	• When a ball is thrown vertically upwards. the kinetic energy of the ball. But the total energy of the		
			the two equinoxes. Spring or ly at 20-21 March and fall or	ball remains constant.		
			ually 21-22 September.	• From the given option. acceleration remain constant		
L		-	it is proof of which one of	while throwing a ball upward.		
tl	he f	`ollowing?/निम्न	लिखित में से किस एक को	76. A proton and an electron having equal velocity		
		ल्ट प्रयोग प्रभावि		are allowed to pass through a uniform magnetic field. Which one of the following		
			arth/पृथ्वी का परिक्रमण	statements is correct in this connection?		
(b) Rotation of Earth/पृथ्वी का घूर्णन				समान वेग वाले एक प्रोट्रान और एक इलेक्ट्रान को		
(c) Rotation of Moon/चन्द्रमा का घूर्णन				एक समान चुंबकीय क्षेत्र से गुजरने दिया जाता है। इस		
(0	d) H	Revolution of M	loon/चन्द्रमा का परिक्रमण	संबंध में निम्नलिखित में से कौन कथन सही है?		
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- (a) The proton and the electron experience equal and opposite force/प्रोटॉन तथा इलेक्ट्रॉन पर समान और विपरीत बल होते हैं
- (b) The proton experiences greater force than does the electron
- इलेक्ट्रॉन की अपेक्षा प्रोटॉन पर अधिक बल होता है (c) The electron experiences more than does the proton

प्रोटॉन की अपेक्षा इलेक्ट्रॉन पर अधिक बल होता है

(d) No moving charge particle experiences a force in a magnetic field/एक चुम्बकीय क्षेत्र में किसी भी गतिमान आवेशित कण पर कोई बल नहीं होता

**Ans : (a)** When an electric charge moves in a uniform magnetic field. a force starts acting on it. It is explained by Lorentz.

According to Lorentz formula,

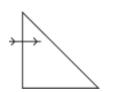
 $F = qvB \sin\theta$ 

where, q = charge

- V = velocity
- B = magnetic field.

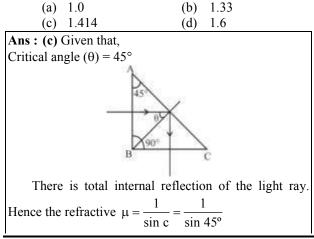
If a proton and an electron having equal velocity, with uniform magnetic field. Therefore, force will be equal for Both proton and an electron. But proton having positive charge and electron having negative charge. Therefore, opposite forces act on them.

77.



A ray of light is incident normally on one of the faces of right angled isosceles prism as shown above. It undergoes total internal reflection from hypotenuse. Which one of the following is the minimum refractive index of the material of the prism?

प्रकाश की एक किरण ऊपर दर्शाए गए की तरह एक समकोणीय समद्विबाहु प्रिज्म के एक फलक पर अभिलम्बवत आपतित होती है। इसका कर्ण से सम्पूर्ण आन्तरिक परावर्तन हो जाता है। प्रिज्म के पदार्थ का निम्नतम अपवर्तनांक निम्नलिखित में से कौन-सा है?



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$$=\frac{1}{\frac{1}{\sqrt{2}}}=\sqrt{2}=1.414$$

Minimum refractive index of the material of prism  $(\mu) = 1.414$ 

- 78. Due to accumulation of which one of the following, joggers experience pain in their leg muscles after running? निम्नलिखित में से किस एक के संचयन से, धावकों को दौड़ने के बाद, पैरों की मांसपेशियों में दर्द का अनुभव होता है?
  - (a) Lactic acid/लैक्टिक अम्ल
  - (b) Acetic acid/एसीटिक अम्ल
  - (c) Malic acid/मैलिक अम्ल
  - (d) Citric acid/सीट्रिक अम्ल

**Ans : (a)** After running, the runners experience pain or fatigue in the muscles of the legs because the muscles have to contract continuously while running, due to which lactic acid starts accumulating.

• Later when rested, lactic acid is slowly oxidized to pyruvic acid. As a result joggers experience no pain in their leg muscles.

79. Stem Cell Therapy (SCT) is not useful for the treatment of which one of the following ailments? निम्नलिखित बीमारियों में से किस एक के उपचार के

निम्नालाखत बामारिया में साकस एक के उपचार के लिए स्टेम कोशिका चिकित्सा (SCT) का उपयोग नहीं होता है?

- (a) Kidney failure/वृक्क पात
- (b) Cancer/कैंसर
- (c) Brain injury/मस्तिष्क क्षति
- (d) Vision impairment/दृष्टि-दोष

**Ans : (d)** Stem cell therapy is a form of regenerative medicine designed to repair damaged cells within the body by reducing inflammation and modulating the immune system.

• This therapy is used for Tissue Regeneration (this can be helpful for kidney and liver transplants), Treatment of cardiovascular disease, treatment of Brain disease such as Alzheimer and Parkinson disease and Blood disease treatment etc.

**Vision impairment** – It means that a person's eyesight cannot be corrected to a normal level.

Eyeglass, contact lenses and other medicines are used for treatment of vision impairment. So, sct is not useful for the this treatment.

80. Which one of the following is the correct order of oxidation number of Iodine (I) in  $I_2$ , HI, HIO<sub>4</sub> and ICI?

निम्नलिखित में से कौन-सा एक  $I_2$ , HI, HIO<sub>4</sub> तथा ICI में आयोडीन (I) की ऑक्सीकरण संख्या का सही क्रम है?

(a)  $HIO_4 < HI < ICI < I_2$ 

- (b)  $HI < I_2 < ICI < HIO_4$
- (c)  $I_2 < ICI < HIO_4 < HI$
- (d)  $ICI < HIO_4 < HI < I_2$

Ans : (b) Oxidation number is defined as the number 83. assigned to a compound or element to show how many electrons were lost or gained. A negative number shows that electrons were gained, while a positive number shows that electrons were lost. 1. Oxidation number of the iodine atoms in the iodine borne molecule is zero. Oxidation number of the iodine atom in the HI is -1 Oxidation number of the iodine atom in the HIO<sub>4</sub> is 7 2. Oxidation number of the iodine atom in the ICl is 1 The correct order of number of Iodine (I) is  $HI < I_2 < ICl < HIO_4$ 81. In which one of the following countries is the infant mortality rate (per 1000 live births) highest? निम्नलिखित में से किस एक देश में शिश मृत्युदर (प्रति 1000 जीवित जन्म) सबसे अधिक है? (a) Sri Lanka/श्रीलंका (b) China/चीन (d) Vietnam/वियतनाम (c) India/भारत Ans : (c) The rate of children who die before their first birthday is called the rate of in font mortality. It is rate which show the number of deaths of the children at one year per 1,000 live births. The SRS (sample registration system) is a demographic survey for providing reliable annual estimates of infant mortality rate, birth rate, death rate and other fertility-It was initialed on a pilot basis by the Register general of India. it become fully operation during 1969-70. In 2007, the infant mortality rate was 55 in india, 84. which was higher than the srilanka, china and vietnam. In India, IMR decline to 28 per 1000 live births in 2020 from 30 per 1000 live births in 2019 82. In which one of the following five year plans the actual growth performance in India in respect of GDP (at factor cost) was less than the target set? निम्नलिखित में से किस एक पंचवर्षीय योजना में भारत में वास्तविक संवृद्धि निष्पादन, सकल घरेलू उत्पाद (उत्पादन लागत पर) के सन्दर्भ में लक्ष्य से कम था? (a) Sixth five year plan/छठी पंचवर्षीय योजना (b) Seventh five year plan/सातवीं पंचवर्षीय योजना (c) Eighth five year plan/आठवीं पंचवर्षीय योजना (d) Ninth five year plan/नौवीं पंचवर्षीय योजना Ans: (d) Ninth fiver year plan (1997-2002) – It marked India. India's 50<sup>th</sup> year since independence and Atal Bihari Vajpayee lid the prime ministership. president about-The main focus of this plan was "Growth with social justice and Equality". This plan failed to achieve the growth target of 6.5% and achieved a growth rate of 5.4%. Eighth five year plan could not take place due to the volatile political 85. situation at the centre. Two annual programmers were formed for the year 1990-1991 and 1991-92 Its luration was from 1992 to 1997, under the leadership of V. Narasimha Rao.

Which among the following is not correct with regard to Sampoorna Grameen Rozgar Yojana? निम्नलिखित में से कौन-सा एक, सम्पूर्ण ग्रामीण रोजगार योजना के सन्दर्भ में सही नहीं है?

- The case component of the programme is exclusively by the Central Government/कार्यक्रम का नकदी घटक अनन्य रूप से केन्द्रीय सरकार द्वारा वहन किया जाता है।
- Foodgrains are provided free of cost to the **States/Union Territories** राज्यों/संघ राज्य क्षेत्रों को खाद्यान्न बिना किसी लागत के प्रदान किए जाते हैं।

Select the answer using the codes given below: नीचे दिए गए कुट का प्रयोग कर सही उत्तर चुनिए

- (a) 1 only/केवल 1
- (b) 2 only/केवल 2
- (c) Both 1 and 2/1 और 2
- (d) Neither 1 nor 2/न तो 1 और न ही 2

Ans : (b) The Indian government has created the Sampoorna Grameen Rozgar Yojana (Universal Rural Employment Programme) in 2001 to offer rural poor people profitable jobs and food.

- The government distributes wages and food grains to individuals who fall below the poverty threshold with this programme.
- This scheme has a central share of 75% and a state share of 25%. for the cash component. The central government provides food grains aid and its are paid to FCI by the ministry of Rural development.
- Which of the following bodies is responsible for the distribution of revenues between the Centre and the States? निम्नलिखित में से कौन-सा निकाय केन्द्र और राज्यों
  - के बीच राजस्व वितरण के लिए उत्तरदायी है?
  - (a) Planning Commission/योजना आयोग
  - (b) Finance Commission/वित्त आयोग
  - (c) Inter-State Council/अर्न्तराज्यीय परिषद्
  - (d) National Development Council
    - राष्ट्रीय विकास परिषद

Ans: (b) Finance commission – It is a constitutionally mandated body that is at the centre of fiscal federalism. It set up under article 280 of the constitution.

- Finance commission has a chairman and four other member who shall be appointed by the president of
- Finance commission makes recommendation to
- (i) Distribution of net tare proceeds centre and states.
- (ii) Principles for granting aid to the states by the centre. (iii) Evaluates the rise in the constipated fund of a state
- to affix the resources of Panchayat/ municipalities.
- Which among the following is not a feature of Part IX of the Constitution of India? निम्नलिखित में से कौन-सा. भारत के संविधान की 9 वीं सुची की विशिष्टता नहीं है?

(a) Five year tenure for panchayats The Vice president shall be ex-officio chairman of the council of states and shall not hold and other पंचायतों के लिए पाँच वर्षीय कार्यकाल office of profit (Article 64) (b) Reservation of seats for Schedule Castes and He is elected by proportional representation (Article Schedule Tribes for panchayat membership 66). The via president is elected indirectly by पंचायत की सदस्यता के लिए अनुसूचित जाति और members of an electoral consisting of the members of अनुसुचित जनजाति के लिए स्थानों का आरक्षण both House of parliament and not the members of (c) Indirect election for all panchayat seats state legislative assembly by the system of (village/intermediate level)/पंचायते proportional representation using single transferable (ग्राम/ मध्यवर्ती स्तर) के सभी स्थानों के लिए अप्रत्यक्ष चनाव votes. • He is qualified for election as a member of the (d) Reservation for not less than one-third of the council of state, is a citizen on India, has completed seats for women/महिलाओं के लिए कम-से कम the age of 35 years. एक-तिहाई स्थानों का आरक्षण Which among the following is/are the feature 87. Panchayati **Ans : (c)** Panchayati Raj Institution was constitutionalized through the 73<sup>rd</sup> constitutional (s) of a Federal State? निम्नलिखित में से कौन-सा⁄सी संघीय राज्य की Amendment Act 1992. This act has added a new part -विशिष्टता है/विशिष्टताएँ है? IX to the Constitution of India. His part is entitled a 'the The powers of the Central and the State 1. panchayats' and consists of provisions from Articles 243 (Constituent Unit) Governments are to 243 O. clearly laid down/केन्द्र और राज्य (संघटन • The act also added a new Eleventh schedule to the इकाइयाँ) सरकारों की शक्तियाँ स्पष्ट रूप से constitution. This schedule contains 29 functional निर्धारित होती है। items of Panchayats. It deals with Article 243 - a. 2. It has an unwritten constitution/ • Features of Part IX of the constitution of India-इसका अलिखित संविधान होता है। (i) Gram Sabha was the foundation of the panchayatiraj system. Select the correct answer using the codes given (ii) the three-tier system of the Panchayat was provided below: in every state i.e Panchayat at the village, नीचे दिए कुट का प्रयोग कर सही उत्तर चुनिए intermediate and district level. (a) 1 only/केवल 1 (iii) The member of Panchavat at the village, (b) 2 only/केवल 2 intermediate and district level shall be elected (c) Both 1 and 2/1 और 2 दोनों directly by the people. (d) Neither 1 nor 2/न तो 1 और न ही 2 (iv) Provision for reservation of 1/3rd of the total number of seats - are also provided for women. Ans : (a) Federation is a new state (Political system) (v) Panchayats have been provided for a five year term formed by a treaty or agreement between the Various of office at every level. units. Federal state having many features-From the given, option (c) is incorrect features of part is (i) **Division of powers** – In a federal system, the power of the constitution of India. is divided between the centre and its constituent net parts such as states or provinces. Which of the following statements is/are 86. (ii) Written constitution – the federal system must be correct with regard to the Vice-President of written. It seines the structures organization, Power and India? functions of the union and state government. As a निम्नलिखित में से कौन-सा/से कथन भारत के result, misunderstanding and disagreement between the उपराष्ट्रपति के सम्बन्ध में सही है/हैं? two are avoided. 1. He must be a Member of Parliament (iii) Dual polity. उसका संसद सदस्य होना आवश्यक है। (iv) Rigid constitution proportional (v) Supremacy of the constitution 2. He is by elected representation/वह आनुपातिक प्रतिनिधित्व के (vi) Independent Judiciary (vii) Bicameralism – the constitution establishes a द्वारा निर्वाचित होता है। bicameral legislature with an upper house and a lower 3. He is Ex-officio Chairman of the Rajya house. Sabha/वह राज्यसभा का पदेन सभापति होता है। Which of the following are the principles of the 88. Select the correct answer using the codes given panchsheel? below: निम्नलिखित में से कौन-से. पंचशील के सिद्धान्त है? नीचे दिए कूट का प्रयोग कर सही उत्तर चुनिए 1. Peaceful co-existence/शान्तिपूर्ण सह-अस्तित्व। (a) Only 1/केवल 1 (b) 1 and 3/1 और 3 2. Mutual protection of the environment/ (d) 1 and 2/1 और 2 (c) 2 and 3/2 और 3 पर्यावरण का परस्पर संरक्षण। Ans : (c) Part V of the constitution of India under indigenous 3. Mutual protection of chapter I about the office of the vice president of India. population/ देशज जनों का परस्पर संरक्षण। The Vice president of India is the second highest Mutual non-aggression/परस्पर अनाक्रमण। 4. constitutional office in the country.

Select the correct answer using the codes given below: नीचे दिए कूट का प्रयोग कर सही उत्तर चुनिए (a) 2 and 3/2 और 3 (b) 1 and 2/1 और 2 (c) 1, 2 and 4/1, 2 और 4 (d) 1 and 4/1 और 4 Ans : (d) The Panchsheel was first formally signed on 1954 between India and the Tibet region of china. • The word Panchsheel is derived from historical Buddhist inscriptions. Panchseel is describe by five point such as – (i) Peaceful co-existence (ii) Mutual respect for each other's territorial integrity and Sovereignty.	<ul> <li>Mahatma Gandhi: Non-cooperation movement included members of various social groups such as middle class, peasants, Tribal's, students etc. the congress party's popularity among the people was established as a result of this movement.</li> <li>Directions: Each of the next three (3) items consist of two statements, one labelled as the 'Assertion (A)' and the other as 'Reason (R)'. You are to examine these two statements carefully and select the answers to these items using the codes given below: निर्देश: (प्रं. सं. 91-93): आगामी प्रष्ठनांशों में दो वक्तव्य हैं: एक को 'कथन (A)' तथा दूसरे को 'कारण (R)' कहा गया है। इन दोनों वक्तव्यों का सावधानीपूर्वक परीक्षण कर इन प्रश्नांशों का उत्तर नीचे दिए हुए कूट की सहायता से चुनिए Codes:/कूट:</li> </ul>
<ul> <li>(iii) Mutual non-interference</li> <li>(iv) Mutual non-aggression</li> <li>(v) Equality Mutual Benefit.</li> <li>89. Which one of the following Articles of the</li> </ul>	<ul> <li>(a) Both A and R are individually true and R is the correct explanation of A/A और R दोनों सही हैं, और R,A का सही स्पष्टीकरण है</li> <li>(b) Both A and R are individually true but R is</li> </ul>
Constitution of India makes a specific mention of village panchayats? भारत के संविधान का निम्नलिखित में से कौन-सा एक अनुच्छेद ग्राम पंचायतों का विशेष उल्लेख	not the correct explanation of A/A और R दोनों सही हैं, और R,A का सही स्पष्टीकरण नहीं है
<b>करता है?ँ</b> (a) Article 19/अनुच्छेद 19 (b) Article 21/अनुच्छेद 21	<ul> <li>(c) A is true, but R is false A सही है, परन्तु R गलत है</li> <li>(d) A is false, but R is true</li> </ul>
(c) Article 40/अनुच्छेद 40 (d) Article 246/अनुच्छेद 246 Ans : (c) Article 40 – It describe one of the DPSP (Directive Principles of State Policy) lay down that the state shall take steps to organise village panchayats and	A गलत है, परन्तु R सही है 91. Assertion (A): Carbon dioxide is a compound. Reason (R): Carbon and oxygen combine together in the ratio 3 : 8 by mass.
<ul> <li>endow them with such power and authority as may be necessary to enable them to functions as units of self government.</li> <li>Panchayat were given constitutional status by 73<sup>rd</sup> constitutional amendment 1992.</li> </ul>	कथन (A): कार्बन डाईऑक्साइड यौगिक है। कारण (R): कार्बन तथा ऑक्सीजन 3:8 द्रव्यमान के अनुपात में एक साथ मिले हैं?
<ul> <li>Article 19 provides "freedom of speech and Expression".</li> <li>Article 21 provides "protection of life and personal liverty"</li> </ul>	<b>Ans : (a)</b> A compound is a substance made up of two or more different chemical elements combined in a fixed ratio. water, carbon dioxide etc are some example of compounds.
<ul> <li>Article 246 of the Indian constitution states that the power between the state and union are categorized into 3 lists – state list, union list and concurrent list.</li> <li>90. Who among the following first imparted a mass</li> </ul>	• Each molecule of CO <sub>2</sub> has carbon atom and 2 oxygen atoms, so the ratio of mass of carbon dioxide (CO <sub>2</sub> )- $\frac{\text{Mass number of carbon}}{\text{Mass number of oxygen}} = \frac{12}{2 \times 16} = \frac{12}{32} = \frac{3}{8}$
other and a mong the following first imparted a mass character to the Indian National Congress? निम्नलिखित में से किसने सर्वप्रथम भारतीय राष्ट्रीय कांग्रेस को जन स्वरूप प्रदान किया?	Therefore carbon and oxygen combine together in the ratio 3 : 8 by mass.
<ul> <li>(a) Jawaharlal Nehru/जवाहरलाल नेहरू</li> <li>(b) Mahatma Gandhi/महात्मा गाँधी</li> <li>(c) Subhash Chandra Bose/सुभाष चन्द्र बोस</li> <li>(d) Lala Lajpat Rai/लाला लाजपत राय</li> </ul>	92. Assertion (A): Narmada and Tapti rivers do not form deltas. Reason (R): These rivers form estuaries. कथन (A): नर्मदा तथा ताप्ती नदियाँ डेल्टा नहीं बनाती है।
<b>Ans : (b)</b> Mahatma Gandhi first imparted mass character to the Indian national congress.	कारण (R): ये नदियाँ ज्वारनदमुख बनाती हैं।
<ul> <li>Gandhi ji returned to India from south Africa in January 1915. Gandhiji was famous after the champaran satyagraha (1917), Ahmedabad lobour movement (1918), Khilafat movement (1919-22) etc.</li> </ul>	<b>Ans : (b)</b> West flowing Rivers in India such as Narmada and Tapti do not form deltas. Because they flow through fault region created by the mountains. Thus they do not carry much sediments to form deltas.
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• Estuary is an area of brackish water which is the tidal mouth of a large River. It refers to the meeting point of the tidal and the stream. the west flowing Rivers form estuaries instead of Delta. Therefore Narmada and Tapti form estuaries.

Hence A and R are individually true and R is not the correct explanation of A.

- 93. Assertion (A): Diamond is a good conductor of electricity
  - Reason (R): Diamond and graphite are two allotrope of carbon and graphite is good conductor of electricity. कथन (A): हीरा विद्युत का सचालक है।
  - कथन (A): हीरा विद्युत का सुचालक है। कारण (R): हीरा तथा ग्रेफाइट कार्बन के दो समरूप हैं तथा ग्रेफाइट विद्युत का सुचालक है।

**Ans : (d)** Graphite and diamond are the two main allotropes of carbon. Graphite is soft in nature but diamond is hard in nature.

- Graphite having hexagonal closed structure. because each carbon atom is linked to only three carbon atoms by covalent bonds. So one valence electron of each carbon atom is free. So, the presence of free electrons conducts electricity in graphite crystals.
- Diamond having tetrahedral structure. Because each Carbon atom is connected to the other four carbon atoms by a single covalent bond. So no free electrons are present in the diamond molecules. Thus it is a non conductor of electricity.
- 94. Match List-I with List-II and select the correct answer using the code given below the lists: सूची-I को सूची-II के साथ सुमेलित कीजिए और सूचियों के नीचे दिए गए कूट का प्रयोग कर सही उत्तर चुनिए

9	•				
	]	List-L	/सूची I		List-II/सूची II
Α	Explanation of the photoelectric effect प्रकाशवैद्युत प्रभाव की व्याख्या			1.	J.J. Thomson जे.जे. थॉमसन
В	Discovery of a comet/पुच्छल तारे की खोज			2.	Robert Millikan रॉबर्ट मिलिकन
С	the cha	rge/वि	electronic	3.	Einstein आइन्सटाइन
D	Thermoelectricity/ ताप-विद्युत			4.	Edmund Halley एडमण्ड हेली
				5	Seebeck/सीबेक
Code:/कूट:					
	Å	В	C D	)	
(a)		В	-		
(a) (b)			-		

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Ľ	Discovery (List I)		Scientist (List II)
(A)	Explanation of the photoelectric	3	– Einstein
(C)	Discovery of a comet	4	- Edmund Halley
(C)	Measurement of the electronic charge	2	– Robert Millikan
(D)	Thermoelectricity	5	- Seebeck

- 95. A syringe is a hollow glass tube with lower end tapered to a nozzle. Due to which one of the following liquid can be drawn into a syringe? सिरिंज एक खोखली कांच की नलिका होती है, जिसके नीचे की शिरा को टैपरित करके तुण्डाकार बनाया जाता है। सिरिंज के भीतर द्रव का खिंचाव निम्नलिखित में से किस एक के कारण होता है?
  - (a) Partial vacuum produced inside the glass tube. काँच की नलिका के अन्दर आंशिक निर्वात का बनना
  - (b) Diffusion/विसरण
  - (c) Surface tension effect/पृष्ठतनाव प्रभाव
  - (d) Capillary action/केशिका क्रिया

**Ans : (a)** When the nozzle of a syringe is dipped in a liquid and its piston is withdrawn, the pressure inside the syringe is low as compared to the atmospheric pressure acting on the surface of liquid.

• Due to this difference in pressure, the liquid is filled up into the syringe. A partial vacuum is produced inside the glass tube due to less pressure.

96. Consider the following statements: If the net external torque acting on an object is switched off, then निम्नलिखित कथनों पर विचार कीजिए यदि किसी वस्तु पर क्रियाशील नेट बाहरी बल-आघूर्ण

याद किसा वस्तु पर क्रियाशाल नट बाहरा बल-आध् को बन्द कर दिया जाता है, तो

- linear momentum will remain unchanged /रैखिक संवेग अपरिवर्तित रहता है।
- angular momentum will remain unchanged/ कोणीय संवेग अपरिवर्तित रहता है।

Which of the statements given above is/are correct?

उपरोक्त कथनों में से कौन-सा⁄से सही है⁄हैं?

- (a) 1 only/केवल 1
- (b) 2 only/केवल 2
- (c) Both 1 and 2/1 और 2 दोनों
- (d) Neither 1 nor 2/न तो 1 और न ही 2

**Ans : (b)** Angular momentum is the vector product of the angular velocity of a particle and its moment of inertia.

• Law of conservation of Angular momentum – when the net external torque acting on a body about the given axis is zero, the total angular momentum of the body about that axis remains constant.

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(d) 3

2

$\frac{dL}{dt} = I \times a = \tau_{net}$	(a) $H_2$ , Ne, $O_2$ , $N_2$ (b) $H_2$ , Ne, $N_2$ , $O_2$ (c) $N_2$ , $O_2$ , Ne, $H_2$ (d) $O_2$ , $N_2$ , $H_2$ , Ne
where, L = angular momentum I = moment of Inertia a = angular acceleration $\tau_{net}$ = Net external torque $\frac{dL}{dt} = 0$ L = constant. So, if the net external torque acting on an object is	<ul> <li>(c) N<sub>2</sub>, O<sub>2</sub>, Ne, H<sub>2</sub></li> <li>(d) O<sub>2</sub>, N<sub>2</sub>, H<sub>2</sub>, Ne</li> <li>Ans: (b) Fractional distillation is a process by which components in a chemical mixture are separated into different parts according to their different boiling points.</li> <li>Gasoline and many other chemicals are produced from crude oil using fractional distillation, Such as fuel oil, diesel, kerosene etc.</li> <li>As the order of boiling point of gases is H<sub>2</sub> &gt; Ne &gt; N<sub>2</sub> &gt; O<sub>2</sub> so same will be the order of fractional distillation of gases.</li> </ul>
switched off, then angular momentum will remain constant. So option (b) is correct. Linear momentum is conserved when there is no external force on the body. 97. Which one of the following is not a nitrogenous fertilizer? निम्नलिखित में से कौन-सा एक, नाईट्रोजनयुक्त उर्वरक नहीं है?	100. Consider the following: The concentration of hydrogen ions in an aqueous solution is expressed by its: निम्नलिखित पर विचार कीजिए किसी जलीय विलयन में हाइड्रोजन आयन की सान्द्रता अभिव्यक्त होती है उसके
(a) $Ca(CN)_2$ (b) $CaCN_2$	1. pH द्वारा 2. pOH द्वारा
(c) $NH_4NO_3$ (d) $Urea/\overline{q}$ (d)	3. pKa द्वारा 4. pKw द्वारा
<b>Ans : (a)</b> A fertilizer is anything that is applied to plant tissue or soil to provide nutrients. Fertilizers are basically classified into two –	Which of the above is/are correct? उपरोक्त में से कौन-सा∕से सही है∕हैं?
(i) Organic fertilizer - Agricultural waste, livestock,	(a) 1 and 2/1 और 2
manure and municipal sludge etc. (ii) Inorganic fertilizer – Nitrogen fertilizer, Phosphorus	(b) 1 and 3/1 और 3 (c) 1, 2 and 3/1, 2 और 3
Fertilizer etc.	(c) 1, 2 and $3/1$ , 2 site 3 (d) 2, 3 and $4/2$ , 3 site 4
• Examples of nitrogenous fertilizers such as Nitrate fertilizer, Ammonium fertilizer, Nitrate and Ammonium fertilizers (Ammonium ( $NH_4 NO_3$ ) and Amide fertilizer (Urea, calcium cyan nitrate amide ( $CaCN_2$ ). etc. But Ca ( $CN_2$ is not a nitrogenous fertilizers.	Ans: (a) pH is scale used to specify the acidity or basicity of an aqueous solution. pH is defined as the decimal logarithum of the reciprocal of the hydrogen ion activity in solution.
<ul> <li>98. Flint glass is obtained from which of the following?</li> <li>फिंलट कांच निम्नलिखित में से किससे प्राप्त होता है?</li> </ul>	• pOH is sometimes used as a measure of the concentration of hydroxide ion, OH <sup>-</sup> pOH values are derived from pH measurement. The concentration of
<ul> <li>(a) Zinc and barium borosilicate</li> <li>जिंक तथा बेरियम बोरोसिलिकेट</li> </ul>	hydroxide ions in water is related to the concentration of hydrogen ions.
(b) Sand, red lead and potassium carbonate रेत, लाल सीसा तथा पोटेशियम	• So option (1) and (2) i.e. The concentration of hydrogen ions in an aqueous solution is expressed by pH and pOH.
(c) Sodium aluminium borosilicate सोडियम एल्युमिनियम बोरोसिलिकेट	101. Which one of the following correctly defines the state of glass?
<ul> <li>(d) Pure silica and zinc oxide</li> <li>विशुद्ध सिलिका तथा जिंक ऑक्साइड</li> </ul>	निम्नलिखित में से कौन-सा एक, काँच की अवस्था को सही परिभाषित करता है?
Ans : (b) The flint is a type of glass that has a very high	का सहा पारमापित करता ह <i>ै</i> (a) Cystalline solid/क्रिस्टलीय ठोस
refractive index and very low Add number (50 to 55)	(b) Super cooled liquid/अतिशीतित द्रव
value (Measure of materials dispersion). The currently known fling glasses have refractive indices ranging	(c) Condensed gas/संघनित गैस
between 1.45 and 2.00.	(d) Liquid crystal/द्रव क्रिस्टल
• Flint glass is obtained from sand, led lead and potassium carbonate. Such glasses are used for malign electric gabs. Lenses of telescopes, camera and prisms etc.	<b>Ans : (b)</b> Glass is a solid-like and transparent material. Glass is made from natural and abundant raw materials (sand, ash, soda and limestone).
99. Which one of the following is the correct order in which the gas H <sub>2</sub> , Ne, O <sub>2</sub> and N <sub>2</sub> are evolved on fractional distillation of liquid air? निम्नलिखित में से कौन-सा एक, वह सही क्रम है, जिसमें H <sub>2</sub> ,Ne,O <sub>2</sub> तथा N <sub>2</sub> गैसें द्रव वायु के प्रभाजी	• Glass is basically an amorphous solid. It does not form a crystalline structure. so, the constituent particles of the glass can move. In regular solids. there is no movement of constituent particles under normal condition. Due to this property, glass is called as super
आसवन करने पर निकलती हैं?	cooled liquid.

**Crystalline solid** – A crystalline solid is a homogenous solid in which the constituent particles, atoms, ions are arranged in a definite repeating pattern.

liquid crystal – It is a state of matter between liquid and solid (mesophase). They change shape like a fluid but have the molecular alignment characteristics of a solid crystal.

102. Match List-I with List-II select the correct answer using the code given below the lists: सूची-I को सूची-II के साथ सुमेलित कीजिए और सूचियों के नीचे दिए गए कूट का प्रयोग कर सही उत्तर चुनिए

		List-I/सूची I		List-II/सूची II	अ
		(Substance		(Colour	1.
		added)		imparted to	2.
		(मिलाया गया		glass)	3.
		पदार्थ)		(काँच का प्रदान	4.
				किया गया रंग)	W
	Α	Chromium (III) oxide/क्रोमियम (III) ऑक्साइड	1.	Red/ लाल	उग (a
	В	Cobalt (II) oxide/कोबाल्ट (II) ऑक्साइड	2.	Violet/ बैंगनी	(b (c (d
	С	Cuprous oxide/	3.	Green/	Ans :
		क्यूप्रस ऑक्साइड		हरा	produce
	D	Manganese dioxide/मैंग्नीज डाइ- ऑक्साइड	4.	Blue/ नीला	example wax and Fatty ac in our bo
Code	:/कूट	5:			fat break
		-	)		are not p
	(a)	2 1 4 3			105. T
	(b)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2 2		le नि
	(c) (d)		3		। हो
Ans	· /	2 7 1 .	,		
		added Colo	ur in	parted to glass	(a
		n oxide ( $Cr_2O_3$ ) –		Green	(0
Coba	ılt ox	ide (CoO) –	]	Blue	Ans: $($
				Red	of bon hydroxy
	Manganese dioxide (MnO <sub>2</sub> ) – Violet				
103. Which one of the following materials is suitable					to form and teet
for water purification? निम्नलिखित पदार्थों में से कौन-सा एक जल के					and attaction of the and attaction of the attact of the at
	ानम्नालाखत पदार्था में से कान-सा एक जल क शोधन के लिए उपयुक्त है?				
			(1,)		Excessiv
	(a)		· · ·	Zeolites/जियोलाइट	fluorosis
(c) Asbestos/ऐस्बेस्टॉस (d) Quartz/क्वार्ट्ज					106. In fo
Ans	<b>Ans : (b)</b> Zeolites forms when volcanic rock or ash interacts with alkaline waters. The reaction can create a				
crystalline and microporous structure made of				नि हो	
aluminosilicates Such as aluminum, silica and oxygen.			(a		
• Zeolites are very good at cationic exchange,					(a (b
removing dissolved ions from a solution and					

replacing. Hem with other ion. It can replace

Due to its natural filtration abilities, zeolite is used in a variety of applications such as agriculture, water purification, filtration, animal nutrition and human health.

Zeolites is a common material used for the purification of drinking water. It removes toxins of upto 5 microns and heavy metals through ion exchange. The removal of chemicals from the water can make it drinkable and cleaner tasting.

- 104. Consider the following: Crude oil is a direct source of निम्नलिखित पर विचार कीजिए अपरिष्कत तेल
  - 1. asphalt/ऐस्फाल्ट का प्रत्यक्ष स्त्रोत है।
  - 2. paraffin wax/पैराफिन मोम का प्रत्यक्ष स्त्रोत है।
  - 3. fatty acids/वसा अम्ल का प्रत्यक्ष स्त्रोत है।
  - 4. gas oil/गैस तेल का प्रत्यक्ष स्त्रोत है।
  - Wich of the above are correct?

## उपरोक्त में से कौन-से सही हैं

- (a) 1 and 2/1 और 2
- (b) 2 and 3/2 और 3
- (c) 1 and 4/1 और 4
- (d) 1, 2 and 4/1, 2 और 4

 Ans : (d) Gasoline and many other chemicals are produced from crude oil using fractional distillation. for example petrol, diesel, kerosene, gas oil, asphalt, paraffin wax and naphtha etc.

 Fatty acid – Fatty acids are the building blocks of the fat in our bodies and in the food we eat. During digestion, the fat breaks down bats into fatty acid. Therefore, fatty acid are not produced from crude oil.

 105. The deficiency of which one of the following leads to dental caries?

 निम्नलिखित में से किस एक की कमी से अपक्षरण होता है?

(a)	Iron/लौह	(b)	Copper/ताम्र
(c)	Fluorine/फ्लोरीन	(d)	Zinc/जस्ता (जिंक)

**Ans : (c)** Fluorine is required for the proper formation of bones and teeth. Fluorine incorporated into hydroxyatite the crystalline mineral of bones and teeth to form fluorapatite, which increases hardness of bone and teeth and provides protection against dental caries and attack by acids.

• The deficiency of fluorine leads to the dental caries. Excessive amounts of fluoride can result In dental fluorosis and skeletal fluorosis.

)6. In which one of the following, antibody formations takes place? निम्नलिखित में से कौन-से एक में प्रतिरक्षी निर्मित होती है?

- (a) RBC<sub>s</sub>
- (b) Blood Platelets/रक्त पट्टिकाणु
- (c) Blood Plasma/रक्त प्लाज्मा
- (d) Donnan's membrane/डोनन झिल्लिका

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unwanted compounds in the solution.