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For 2024 Exam



SSC CAPFs (CPO)

Central Armed Police Forces

15

Previous Years'

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PAPERS

Delhi Police & CAPFs

Sub-Inspector (SI)

YEAR-WISE 2017-2023

PAPER-1

Strictly as per the Latest Exam Pattern issued by SSC CAPFs (CPO)

The ONLY book you need to Ace SSC CAPFs (CPO)

1

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2

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with 3000+ Questions
& 1 Sample Paper

3

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Paper-1 in the first attempt

5

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Year-wise Trend
Analysis (2019-23)

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**SYLLABUS
COVERED**

SSC CAPFs (CPO) SI



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PREFACE

Staff Selection Commission (SSC) recruits candidates for the Central Police Organization (CPO) SI. It is an Open Competitive Examination for recruitment of Sub-Inspector & Assistant Sub-Inspector in Delhi Police and Central Armed Police Forces.

The intake application rate for SSC CAPFs (CPO) SI is relatively high. In this situation, candidates compete for a limited number of seats. However, with the right preparation strategy, you can secure a seat in SSC CAPFs (CPO) SI and give your career the right push.

The term “Previous Years’ Solved Papers” refers to actual Question Papers from past years that have been thoroughly solved and explained to aid applicants in understanding the blueprint and format of the exam. For any Competitive Exam, solving Previous Years’ Question Papers is a crucial component of the study plan because it enables applicants to identify their learning gaps and fill them at the earliest.

This book aims to help students achieve a high score in SSC CAPFs (CPO) SI Paper-1, prepared by the Editorial Board of Oswaal Books. It consists of solved question papers, which will enable students to answer the questions with confidence. This book has 15 Solved Papers (2017 - 2023) of SSC CAPFs (CPO) SI Paper-1.

How will this book benefit students?

- **100% Exam Ready** with 2023 Papers Fully Solved
- **Extensive Practice** with 3000+ Questions and One Sample Paper
- **Concept Clarity** : Learn New Concepts through Detailed Explanations
- **100% Exam Readiness** with Latest Year-wise Trend Analysis (2019 - 2023)
- **Valuable Exam Insights** with Hints, Shortcuts & Expert Tips to Crack SSC CAPFs (CPO) SI Exam in first attempt.

This book has developed with the highest editorial standards. The innovative learning pedagogy of the book makes it a must-have for anyone preparing for SSC CAPFs (CPO) SI Paper-1. To stay true to our motto of ‘**Learning Made Simple**’, we constantly strive to present information in ways that are easy to understand and remember. We wish the readers great success ahead!

All the Best!
Team Oswaal

Oswaal Books Expert Tips to Crack the Exam in the First Attempt

1.

It is advisable to start early. There are many instances where students fall short of time to finish the syllabus and wind up avoiding a couple of points that show up in the examination. Additionally, beginning the SSC CAPFs (CPO) SI preparation at the initial stage can help in reviewing all the concepts on time and thus, scoring high marks.

2.

The initial step prior to starting the planning is to know the detailed prospectus of SSC CAPFs (CPO) SI. The syllabus assists with having a reasonable comprehension of what all must be examined. With the assistance of the SSC CAPFs (CPO) SI syllabus, students can plan their studies and focus on points that will require additional time and concepts.

3.

Having a knowledge of how the SSC CAPFs (CPO) SI exam will be conducted, the type of questions posed or the marking scheme is profoundly advantageous. The SSC CAPFs (CPO) SI test comprises of Multiple Choice Questions (MCQs).

4.

Success in scoring high in SSC CAPFs (CPO) SI depends upon studying from the right books such as Oswaal Books. You can refer to Oswaal Books SSC CAPFs (CPO) SI Paper-1 Solved Papers to your preparation. The books are on the lines of the current syllabus and can be entrusted upon before the examination for sure.

5.

Sample Papers will not only help the candidates in understanding the examination pattern, but also help them in figuring out the questions that come up every year and this might give them an edge over other students. The candidates can refer to Oswaal SSC CAPFs (CPO) SI Paper-1: 15 Solved Papers to practice for the upcoming exams.

6.

Make sure to revise as much as possible. Revision will help the candidates in keeping the concepts fresh in their mind.

7.

While solving papers, make sure to keep a track of time i.e. how much time does it take to solve one section or one question? Make a report of the sections and type of questions, which take minimum and maximum time.

Eligibility Criteria

Nationality/Citizenship: A candidate must be either:

- a citizen of India, or
- a subject of Nepal, or
- a subject of Bhutan.

Provided that a candidate belonging to categories shall be a person in whose favour a certificate of eligibility has been issued by the Government of India.

Age limit of the candidates should be from 20 to 25 years Permissible relaxation in upper age limit prescribed will be as follows:

Category	Age-Relaxation permissible beyond the upper age limit / age limit after relaxation
SC/ ST	5 years
OBC	3 years
Ex-Servicemen (ESM)	3 years after deduction of the military service rendered from the actual age as on the closing date.
Widows, divorced women and women judicially separated from their husbands and who are not re- married.	Up to 35 years of age
Widows, divorced women and women judicially separated from their husbands and who are not re- married. (SC/ST)	Up to 40 years of age
For Departmental candidates of Delhi Police against the vacancies of Delhi Police only	
Departmental candidates (Unreserved) who have rendered not less than 3 years of regular and continuous service as on closing date.	Up to 30 years of age
Departmental candidates (OBC) who have rendered not less than 3 years of regular and continuous service as on closing date.	Up to 33 years of age
Departmental candidates (SC/ST) who have rendered not less than 3 years of regular and continuous service as on closing date.	Up to 35 years of age

Date of Birth filled by the candidate in the online application form and the same recorded in the Matriculation/Secondary Examination Certificate will be accepted by the Commission for determining the age and no subsequent request for change will be considered or granted.

Ex-Servicemen (ESM) who have already secured employment in civil side under the Government in Group 'C' & 'D' posts on regular basis after availing of the benefits of reservation given to Ex-Servicemen for their re-employment are not eligible for reservation in ESM category and fee concession. However, he/she can avail of the benefit of reservation as Ex- Serviceman for subsequent employment if he/she immediately after joining civil employment, gives self-declaration/undertaking to the concerned employer about the date-wise details of applications for various vacancies which he/she had applied for before joining the initial civil employment dated 14th August 2014 issued by DoP&T.

The period of "Call up Service" of an Ex-Serviceman in the Armed Forces shall also be treated as service rendered in the Armed Forces for purpose of age relaxation as per rules.

Educational Qualifications

Educational Qualification for all posts is Bachelor's degree from a recognized university or equivalent.

Overview of the SSC CAPFs (CPO) SI Exam

Scheme of Examination:

The examination will consist of Paper-I, Physical Standard Test (PST)/Physical Endurance Test (PET), Paper-II and Detailed Medical Examination (DME). All these stages of the examination are mandatory. Details of these Papers/ Tests are as follows:

Paper-I:

Part	Subject	Number of Questions	Maximum Marks	Time Duration
I	General Intelligence and Reasoning	50	50	2 Hours
II	General Knowledge and General Awareness	50	50	
III	Quantitative Aptitude	50	50	
IV	English Comprehension	50	50	

PAPER-II:

Subject	Number of Questions	Maximum Marks	Time Duration
English language & Comprehension	200	200	2 Hours

Questions in both papers will be of Objective Multiple Choice Type. Questions will be set in Hindi and English in Parts-I, II and III of Paper-I. There will be negative marking of 0.25 marks for each wrong answer in Paper-I & Paper-II. Candidates are, therefore, advised to keep this in mind while answering the questions.

Marks scored by candidates in Computer Based Examination will be normalized by using the formula and such normalized scores will be used to determine final merit and cut off marks.

Tentative Answer Keys will be placed on the website of the Commission after the Examination. Candidates may go through the Answer Keys and submit representations, if any, within the time limit given by the Commission through online modality only, on payment of Rs.100/- per question which is non refundable. Any representation regarding Answer Keys received within the time limit fixed by the Commission at the time of uploading of the Answer Keys will be scrutinized before finalizing the Answer Keys and the decision of the Commission in this regard will be final. No representation regarding Answer Keys shall be entertained later.

National Cadet Corps (NCC) certificate holders will be given bonus marks in Paper-I and Paper-II which will be added to the normalized scores of such candidates as per following scheme:

S. No.	Type of NCC Certificate	Bonus Marks in each Paper (Paper-I and Paper-II)
1	NCC 'C' Certificate	10 marks (5% of the maximum marks)
2	NCC 'B' Certificate	6 marks (3% of the maximum marks)
3	NCC 'A' Certificate	4 marks (2% of the maximum marks)

Latest Syllabus of SSC CAPFs (CPO) SI

Indicative Syllabus

Paper-I:

General Intelligence and Reasoning: It would include questions of both verbal and non-verbal type. This component may include questions on analogies, similarities and differences, space visualization, spatial orientation, problem solving, analysis, judgment, decision making, visual memory, discrimination, observation, relationship concepts, arithmetical reasoning and figural classification, arithmetic number series, non-verbal series, coding and decoding, statement conclusion, syllogistic reasoning etc. The topics are, Semantic Analogy, Symbolic/Number Analogy, Figural Analogy, Semantic Classification, Symbolic/ Number Classification, Figural Classification, Semantic Series, Number Series, Figural Series, Problem Solving, Word Building, Coding & de-coding, Numerical Operations, symbolic Operations, Trends, Space Orientation, Space Visualization, Venn Diagrams, Drawing inferences, Punched hole/ pattern-folding & un-folding, Figural Pattern- folding and completion, Indexing, Address matching, Date & city matching Classification of centre codes/ roll numbers, Small & Capital letters/ numbers coding, decoding and classification, Embedded Figures, Critical thinking, Emotional Intelligence, Social Intelligence, etc.

General Knowledge and General Awareness: Questions in this component will be aimed at testing the candidates' general awareness of the environment around him and its application to society. Questions will also be designed to test knowledge of current events and of such matters of every day observations and experience in their scientific aspect as may be expected of any educated person. The test will also include questions relating to India and its neighboring countries especially pertaining to History, Culture, Geography, Economic Scene, General Polity, Indian Constitution, Scientific Research, etc.

Quantitative Aptitude: The questions will be designed to test the ability of appropriate use of numbers and number sense of the candidate. The scope of the test will be computation of whole numbers, decimals, fractions and relationships between numbers, Percentage, Ratio and Proportion, Square roots, Averages, Interest, Profit & Loss, Discount, Partnership Business, Mixture and Alligation, Time and distance, Time & work, Basic algebraic identities of School Algebra and Elementary surds, Graphs of Linear Equations, Triangle and its various kinds of centres, Congruence and similarity of triangles, Circle and its chords, tangents, angles subtended by chords of a circle, common tangents to two or more circles, Triangle, Quadrilaterals, Regular Polygons, Circle, Right Prism, Right Circular Cone, Right Circular Cylinder, Sphere, Hemispheres, Rectangular Parallelepiped, Regular Right Pyramid with triangular or square base, Trigonometric ratio, Degree and Radian Measures, Standard Identities, Complementary angles, Heights and Distances, Histogram, Frequency polygon, Bar diagram & Pie chart.

English Comprehension: Candidates' ability to understand correct English, his/ her basic comprehension and writing ability, etc. would be tested.

Paper-II:

English Language and Comprehension: Questions in these components will be designed to test the candidate's understanding and knowledge of English Language and will be based on error recognition, filling in the blanks (using verbs, preposition, articles, etc.), Vocabulary, Spellings, Grammar, Sentence Structure, Synonyms, Antonyms, Sentence Completion, Phrases and Idiomatic use of words, comprehension, etc.

Physical Standard Test (PST) and Physical Endurance Test (PET)

Physical Standard Test (for all Posts):

S. No.	Category of candidates	Height (in cm)	Chest (in cm)	
			Unexpanded	Expanded
(i)	Male candidates except those listed at S No (ii) and (iii)	170	80	85
(ii)	Candidates belonging to Hill areas of Garhwal, Kumaon, Himachal Pradesh, Gorkhas, Dogras, Marathas, Kashmir Valley, Leh & Ladakh regions, North-Eastern States and Sikkim.	165	80	85
(iii)	All candidates belonging to Scheduled Tribes	162.5	77	82
(iv)	Female candidates except those listed at S No (v) and (vi)	157	-	-
(v)	Female candidates belonging to Hill areas of Garhwal, Kumaon, Himachal Pradesh, Gorkhas, Dogras, Marathas, Kashmir Valley, Leh & Ladakh regions, North- Eastern States and Sikkim	155	-	-
(vi)	All female candidates belonging to Scheduled Tribes	154	-	-

Weight: Corresponding to height (for all posts).

Physical Endurance Test (PET) (For all posts):

For male candidates:

100 metre race in 16 seconds
1.6 Kms race in 6.5 minutes
Long Jump: 3.65 metre in 3 chances
High Jump : 1.2 metre in 3 chances
Shot put (16 Lbs): 4.5 metre in 3 chances

For female candidates:

100 metre race in 18 seconds
800 metre race in 4 minutes
Long Jump: 2.7 metre in 3 chances
High Jump: 0.9 metre in 3 chances.

There shall be no minimum requirement of chest measurement for female candidates.

Relaxation in height and chest (as the case may be) as mentioned above will be permissible only on production of certificate in the Performa as prescribed in Annexure-VIII from the competent authorities of the District where they ordinarily reside(s).

The relaxation in physical standards (height/chest) once granted at the time of initial appointment in Delhi Police will hold good till the individual concerned remains in Delhi Police.

Those candidates who are declared not qualified in Physical Standards, i.e., height and chest may prefer an appeal, if they so desire, to the appellate authority present on the PET/ PST ground. The decision of the appellate authority will be final and no further appeal or representation in this regard will be entertained.

PST/ PET will not carry any marks but will be of qualifying/ elimination nature.

Physical Standard Test (PST) and Physical Endurance Test (PET)

Ex-Servicemen applying for the posts are not required to undergo PET. However, all Ex-Servicemen are required to pass the written tests and fulfill the physical standards prescribed herein. They should also pass the medical standards prescribed for direct recruits.

Medical standard (For all posts):

Medical Examination: All the candidates who qualify in Paper-II will be medically examined by the Medical Officer of the CAPFs or any other Medical Officer or Assistant Surgeon belonging to Grade-I of any Central/ State Govt. Hospital or Dispensary. Candidates, who are found to be unfit, will be informed of the position and they can make an appeal before Review Medical Board within the prescribed time limit of 15 days. Decision of Re-Medical Board/Review Medical Board will be final and no appeal/representation against the decision of the Re-Medical Board/Review Medical Board will be entertained.

Eye sight: The minimum near vision should be N6 (better eye) and N9 (worse eye). The minimum distant vision should be 6/6 (better eye) and 6/9 (worse eye) of both eyes without any correction like wearing glasses or surgery of any kind to improve visual acuity. In right handed person, the right eye is better eye and vice versa.

The candidate must not have knock knee, flat foot, varicose vein or squint in eyes and they should possess high colour vision.

They must be in good mental and bodily health and free from any physical defect likely to interfere with the efficient performance of the duties.

Finally selected candidates for the posts of Sub-Inspector would, as part of training curriculum, have to pass seven obstacle events as mentioned below, failing which they may not be retained in the Force:

Jumping over the Vertical Board.

Holding the rope on jumping from the Board.

Tarzan Swing.

Jumping on the Horizontal Board.

Parallel Rope.

Monkey Crawl

Vertical Rope.

Tattoo: Tattoos will be allowed as per following stipulations only:

Content: Tattoo depicting religious symbol or figures and the name, as followed in Indian Army are permitted.

Location: Tattoos marked on traditional sites of the body like inner aspect of forearm but only left forearm, being non saluting limb or dorsum of the hands shall be allowed.

Size: Size must be less than $\frac{1}{4}$ of the particular part (Elbow or Hand) of the body.

SSC CAPFs (CPO) SI Cut Off Paper-1 (2014-2022)

SSC CAPFs (CPO) SI Paper 1/Tier 1 cut off of Male Candidates								
Category	2014	2015	2016	2017	2018	2019	2021	2022
General	85	88.25	89.75	117.25	140.08	101.19	114.674	115.04
OBC	70	74	77	102	133.36	97.78	107.940	102.96
SC	63.25	68	67.75	90.25	111.17	75.45	84.316	79.31
ST	59.25	65	67.25	90	111.17	73.59	83.544	78.13
Ex-Servicemen	40	63	30	43	70	–	–	40
EWS	–	–	–	–	–	91.72	76.410	103.97

SSC CAPFs (CPO) SI Paper 1/Tier 1 cut off of Female Candidates								
Category	2014	2015	2016	2017	2018	2019	2021	2022
General	81.85	83	83.5	112.5	137.6	104.12	118.386	126.29
OBC	68	70.75	69.5	97.75	127.51	97.78	113.070	118.22
SC	61	62	60.25	84.75	99.5	75.45	90.374	95.73
ST	54	60	58.25	81	110.31	73.59	85.509	88.6
Ex-Servicemen	–	–	30	–	–	–	–	–
EWS	–	–	–	–	–	91.72	87.912	120.67



Trend Analysis (2023 -2019)

English Comprehension					
Chapter Name	Topic Name	2019	2020	2022	2023
Vocabulary	Antonym	4	5	10	8
	Synonym	6	5	2	2
	Spelling	5	5	5	2
	Idioms & Phrases	4	5	9	8
	One word substitution	5	5	6	9
Reading Comprehension	Reading Comprehension	5	5	0	10
Grammar	Error Identification	11	10	7	6
Fill in the blanks	Cloze test	5	5	10	3
	One Word	5	5	1	2
Total Questions		50	50	50	50

Quantitative Aptitude					
Chapter Name	Topic Name	2019	2020	2022	2023
Number System	Simplification	5	3	3	2
	Divisibility Rules	1	2	2	2
	Sum of Numbers		1		
	HCF & LCM	1		3	5
	Factors	1	1	1	
Arithmetic	Percentage	2	2	3	2
	Simple Interest & Compound Interest	2	2	1	1
	Average	2	1	1	2
	Profit, loss and Discount	3	4	4	5
	Ratio & Proportion and Partnership	2	3	1	3
	Time, Speed & Distance	4	4	5	3
	Time & Work	2	2	2	3
Algebra	Algebraic Expression	3	3	3	
Geometry	Triangles	2	2	2	2
	Circles	2	1	2	2
	Quadrilateral	1	1		

Trend Analysis (2023 -2019)

Mensuration	Sphere		1	1	3
	Cube	1	1		1
	Hemishpere			2	
	Cylinder	2		1	1
	Trapezium	1	1		
	Rectangles		1		
	Hexagon		1		
Trigonometry	Trigonometric Ratios	1	1	1	2
	Properties of Triangle	1		1	
	Trigonometric Identities		1	2	2
	Height & Distance	2	2		
Data Interpretation	Pie Chart	3	3	2	2
	Tabular			5	5
	Bar Graph	6	6	2	2
Total Questions		50	50	50	50

General Intelligence and Reasoning					
Chapter Name	Topic Name	2019	2020	2022	2023
Mathematical Operations	Mathematical Symbol	3	2	6	6
	Mathematical Symbol & Alphabet letter	1	1	3	1
Blood Relations	Symbol & Letter Based Relation	0	1	2	1
	Family Relation	0	1	0	
Matrix	Number Based	1	4	0	2
Non-Verbal (Mirror Image, Counting figure, Embedded figure)	Embedded figure	2	2	2	3
	Mirror Image	2	2	2	
	Figure Letter & Symbol Series	0	0	1	3
	Paper Cutting	1	2	0	3
	Figure Series	3	3	2	1
Coding-Decoding	Word Coding	2	2	3	
	Word & Number Coding	1	2	1	3
	Group of words Coding	0	1	0	2

Trend Analysis (2023 -2019)

Odd one out	Letters or word	4	2	2	2
	Number Based	4	0	0	
Direction Sense Test	Movement - Left & Right	2	1	2	2
Sitting Arrangement	Row Arrangement	0	1	2	1
	Ractangular Arrangement	0	1	0	
	Circular Arrangement	0	1	0	1
Statement & Conclusion	3 Statements & 4 Conclusions	0	0	1	
	2 Statements & 3 Conclusions	0	1	1	1
	2 Statements & 2 Conclusions	1	1	1	1
	1 Statements & 2 Conclusions	1	0	0	
Analogy	Word /Letter Analogy	7	2	2	2
	Number Analogy	4	1	2	
Series	Alphabet Letter Series	2	3	4	2
	Number Series	2	4	4	5
Calendar	Day & Date Based	0	1	1	
Cube & Dice	Face Number Based	0	1	4	2
	Symbol Based Cube	1	1	0	
Miscellaneous	English Dictionary Order Words Sequence	1	1	1	2
	Venn Diagram	3	2	1	2
	Logical Words Sequence	1	1	0	
	Number Ratio	0	1	0	2
	Logical Number Puzzle	0	1	0	
	Number of Triangles in the Figure	1	0	0	
Total Questions		50	50	50	50

Trend Analysis (2023 -2019)

General Knowledge and General Awareness					
Chapter Name	Topic Name	2019	2020	2022	2023
Polity & Indian Costitution	Indian Constitution	5	3	4	7
	Five Year Plan	0	1	1	1
Economics	GDP	0	0	2	2
	Schemes	1	2	0	1
	Budget	1	1	0	
History	Modern History	1	2	1	3
	Medieval History	4	1	3	4
	Ancient History	0	2	1	4
Geography	Ecology & Environment	3	0	6	7
Science & Technology	Physics	2	7	2	2
	Chemistry	5	1	4	1
	Biology	6	2	1	4
Miscellaneous	Sports	3	3	4	4
	Awards	3	3	2	1
	Art & Culture	4	4	3	5
	Book & Author	1	2	2	1
	Autobiography	1	0	2	1
	Personality	2	4	2	
	Appointment	0	0	1	
	Organizations	0	2	4	
	Fact Based	8	10	5	2
Total Questions		50	50	50	50

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STAFF SELECTION COMMISSION
SUB-INSPECTOR IN DELHI POLICE AND
CENTRAL ARMED POLICE FORCES EXAMINATION (PAPER-I)

SOLVED PAPER

(5th October 2023: Shift-3)

Time Allotted- 2 hours

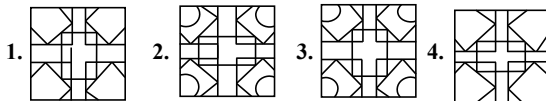
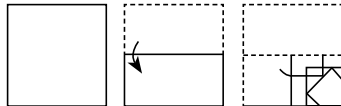
Max marks- 200

Important Instructions:-

- This paper contains 200 questions and divided into 4 sections and each section contains 50 questions.
 - General Intelligence and Reasoning
 - General Knowledge and General Awareness
 - Quantitative Aptitude
 - English Comprehension
- There will be 1 mark of each correct answer and also there will be negative marking of 0.25 for each wrong answer
- Each question is compulsory to attempt and there will be no negative marking for unattempted questions.

General Intelligence & Reasoning

1. A paper is folded and cut as shown. How will it appear when unfolded?



2. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. e.g., 13- Operations on 13 such as adding/ subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)

(53, 36, 25)

(71, 54, 43)

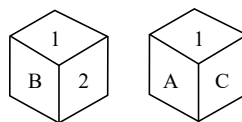
1. (41, 23, 18)

2. (99, 82, 71)

3. (66, 53, 41)

4. (32, 14, 7)

3. Six characters A, B, C, 1, 2 and 3 are written on different faces of a dice. Two positions of this dice are shown in the figure. Find the character on the face opposite to C.



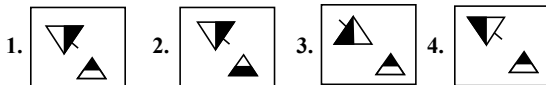
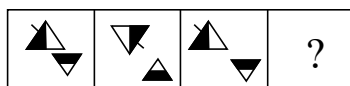
1. A

2. 2

3. 3

4. B

4. Select the figure that will come next in the following figure series.



5. Select the option that represents the letters that, when sequentially placed in the blanks below, will complete the letter-series.

a, b, a, b, b, _, a, b, a, b, _, a, a, b, a, b, b, _

1. b, a, b

2. a, b, a

3. b, b, b

4. a, a, a

6. Select the number from among the given options that can replace the question mark (?) in the following series.

144, 171, 200, ?, 264

1. 240

2. 256

3. 225

4. 231

7. Which letter-cluster will replace the question mark (?) to complete the given series?

FOHV, CKER, ?, WCYJ, TYVF

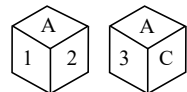
1. XHBM

2. ZGBN

3. AFCP

4. AHCO

8. Six characters A, B, C, 1, 2 and 3 are written on different faces of a dice. Two positions of this dice are shown in the figure. Find the character on the face opposite to 3.



1. B

2. 1

3. 2

4. C

9. In a certain code language, 'BLOCK' is coded as LBCON and 'CABIN' is coded as ACIBQ. How will 'SUITE' be coded in the same language?

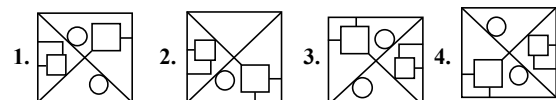
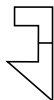
1. USTIH

2. UTSEH

3. ETHUS

4. USHTI

10. Select the option in which the given figure is embedded (rotation is NOT allowed).



11. In a certain code language, 'MOBILE' is written as 'NQEMQK' and 'BISHOP' is written as 'CKVLTV'. How will 'CHARGE' be written in that language?

1. DJEVLJ

2. DJDWLK

3. DJDVLK

4. DJDVKL

12. Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.

1. Warehouse

2. Warden

3. Warship

4. Wardrobe

5. Warrant

6. Warfare

1. 4, 2, 1, 6, 5, 3

2. 2, 4, 1, 6, 5, 3

3. 2, 4, 6, 5, 1, 3

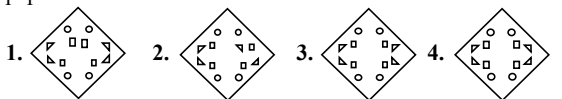
4. 2, 4, 1, 5, 6, 3

13. Select the Venn diagram that best illustrates the relationship between the following classes.

Clothes, Shoes, Shirts



14. The sequence of folding a piece of paper and the manner in which the folded paper is cut is shown in the following figures. How would this paper look when unfolded?



1. 2. 3. 4.

15. If A denotes '+', B denotes '×', C denotes '−', and D denotes '÷', then what will be the value of the following equation?

$$11 B 12 C 144 D 24 A 57 = ?$$

1. 180 2. 183 3. 186 4. 160

16. Q + J means "Q is the Husband of J"

Q − J means "Q is the Father of J"

Q × J means "Q is the Mother of J"

Q * J means "Q is the Daughter of J"

If D * V + B × U, how is D related to U?

1. Sister 2. Mother 3. Brother 4. Daughter

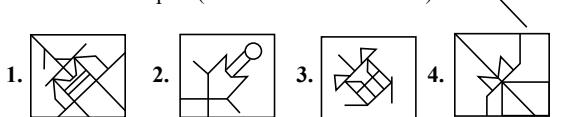
17. Q is to the east of S. E is to the south of S. P is to the north-east of Q and north of T. If T is to the south-east of Q, what is the position of S with respect to T? (All positions are arranged in GRID pattern)

1. South-east 2. South-west 3. West 4. North-west

18. In a certain code language, 'SPAM' is coded as '36' and 'JUG' is coded as '27'. How will 'FROCK' be coded in that language?

1. 72 2. 45 3. 90 4. 48

19. Select the option figure in which the given figure is embedded as its part (rotation is NOT allowed).



20. Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the odd letter-cluster.

1. SRWX 2. HGLM 3. POTU 4. DBGH

21. 'T + U' means 'T is the mother of U'.

'T − U' means 'T is the father of U'.

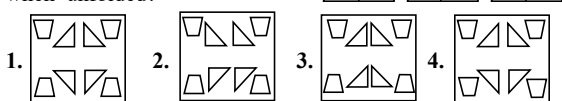
'T \$ U' means 'T is the husband of U'.

'T # U' means 'T is the daughter of U'.

If A # C \$ V + X, then how is A related to X?

1. Brother 2. Sister 3. Father 4. Daughter

22. A paper is folded and cut as shown below. How will it appear when unfolded?



23. Select the set in which the numbers are related in the same way as are the numbers of the following sets.

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. e.g., 13 – Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed)

(112, 327, 215), (98, 254, 156)

1. (108, 209, 184) 2. (105, 347, 322)

3. (126, 268, 142) 4. (281, 490, 309)

24. Select the set in which the numbers are related in the same way as are the numbers of the following set.

(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting / multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)

(5, 4, 2)

(9, 9, 3)

1. (21, 39, 1) 2. (5, 2, 6) 3. (24, 43, 34) 4. (17, 6, 5)

25. Seven people, A, B, C, D, E, F and G, are sitting in a straight row, facing north. Only 2 people sit to the right of D. G is an immediate neighbour of D. Only 3 people sit between A and G. Only 2 people sit between B and C. E is not an immediate neighbour of C. F sits to the immediate right of G.

Who sits to the immediate left of A?

1. E 2. C 3. D 4. B

26. Select the option that represents the correct order of the given words as they would appear in an English dictionary?

1. Brochure 2. Brine 3. Bright

4. Brief 5. Brocade

1. 1, 2, 3, 4, 5 2. 1, 2, 3, 5, 4

3. 4, 3, 2, 5, 1 4. 3, 2, 5, 4, 1

27. If '+' means '−', '−' means '×', '×' means '÷' and '÷' means '+', what will come in place of '?' in the following equation?

$$79 \div 64 \times 8 - 7 + 12 = ?$$

1. 123 2. 117 3. 138 4. 147

28. Two statements are given followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

All keys are locks.

No door is a lock.

Conclusions:

I. Some locks are doors.

II. Some locks are keys.

III. No key is a door.

1. Both conclusions I and II follow.

2. Conclusions I, II and III follow.

3. Both conclusions II and III follow.

4. Both conclusions I and III follow.

29. In a certain code language, 'Live long' is coded as 'mu ae', 'Road is long' is coded as 'ae si du' and 'Game is live' is coded as 'si mu zt'. What is the code for the word 'Game'?

1. si 2. mu 3. zt 4. ae

30. Which two signs should be interchanged to make the given equation correct?

$$42 \div 7 + 11 \times 87 - 12 = 141$$

1. ÷ and − 2. ÷ and + 3. × and + 4. − and ×

31. Select the option that is related to the third word in the same way as the second word is related to the first word.

(The words must be considered as meaningful words and must not be related to each other based on the number of letters / number of consonants / vowels in the word.)

Pressure : Barometer :: Electricity : ?

1. Cyclotron 2. Bolometer

3. Audiometer 4. Multimeter

32. Which of the following numbers will replace the question mark (?) in the given series?

270, 241, 212, ?, 154, 125

1. 198 2. 186 3. 183 4. 192

33. Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term.

25 : 18 :: 37 : ? :: 49 : 36

1. 29 2. 32 3. 30 4. 27

34. Six students Meera, Jigyasa, Tarun, Naina, Shambhavi and Avni are sitting around a circular table facing the centre (not necessarily in the same order). Shambhavi is an immediate neighbour of both Jigyasa and Avni. Tarun is sitting third to the left of Jigyasa. Meera is sitting second to the right of Avni. Who is sitting second to the left of Jigyasa?

1. Meera 2. Naina 3. Avni 4. Tarun

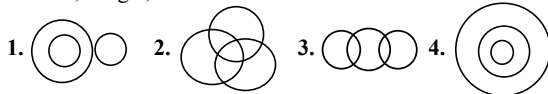
35. Which letter-cluster will replace the question mark (?) to complete the given series?

BRCQ, EPFO, ?, KLLK, NJOI

1. HINO 2. GNMI 3. HNIM 4. GINO

36. Select the Venn diagram that best illustrates the relationship between the following classes.

Animal, Jungle, Wild Animal

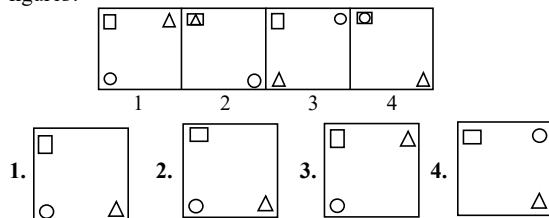


37. When the following figure is folded to form a cube, which letter-number will be on the face opposite to the face showing the letter-number 'A1'?

(The elements are shown to indicate the sides only.)

1. U5 2. O4 3. I3 4. E2

38. Which of the given figures when placed in the 5th position would continue the series that is established by the first four figures?



39. Select the option that is related to the third word in the same way as the second word is related to the first word.

(The words must be considered as meaningful words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

Centre : Focus :: Vicar : ?

1. Life 2. Priest 3. Building 4. Riddle

40. Three of the following four letter-clusters are alike in a certain way and one is different.

Pick the odd one out.

1. MOKN 2. SQUH 3. GIET 4. CEAX

41. Which two signs should be interchanged to make the given equation correct?

$39 \div 3 - 11 + 57 \times 29 = 171$

1. - and \times 2. - and + 3. \div and + 4. \div and -

42. Stanley starts cycling from Point A. He cycles X km towards the west and then turns right and cycles 3 km. He again turns right and cycles for X + 1 km. He again turns right and cycles for 2X + 1 km. He takes a final right turn and cycles for 1 km to stop at Point B. Point B is 6 km south of Point A. What is the value of X?

1. 9 2. 3 3. 4 4. 5

43. In a certain code language, 'PIN' is coded as 9 and 'CHARGER' is coded as 49. How will 'CABLE' be coded in the same language?

1. 27 2. 25 3. 18 4. 36

44. Which of the following numbers will replace the question mark (?) in the given series?

5, 20, 60, 240, 720, ?

1. 2580 2. 2880 3. 2160 4. 2675

45. Two statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements:

All rivers are lakes.

Some seas are rivers.

Conclusion:

I. Some seas are lakes.

II. All lakes are rivers.

1. Neither Conclusion I nor II follows.

2. Only Conclusion II follows.

3. Only Conclusion I follows

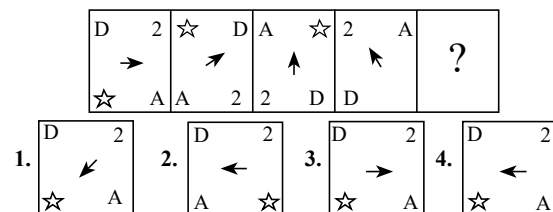
4. Both Conclusions I and II follow.

46. If '+' means '-', '-' means ' \times ', ' \times ' means ' \div ', ' \div ' means '+', then what will come in place of the question mark (?) in the following equation?

$39 \times 3 - 11 \div 57 + 29 = ?$

1. 163 2. 190 3. 185 4. 171

47. Which figure from the given options would replace the question mark (?) if the following figures series were to be continued?



48. If M denotes '-', N denotes ' \div ', O denotes ' \times ', and P denotes '+', then what will come in place of '?' in the following equation?

$21 \text{ O } 5 \text{ P } 69 \text{ N } 3 \text{ P } \sqrt{225} \text{ M } 88 = ?$

1. 61 2. 65 3. 55 4. 50

49. Which of the following numbers will replace the question mark (?) in the given series?

69, 65, 67, 63, ?, 61

1. 65 2. 60 3. 62 4. 64

50. Which two mathematical signs should be interchanged to make the given equation correct?

$(45 \times 2) \div 15 - (6 \times 3) + 10 - (63 \div 21) = 17$

1. \div and + 2. \times and - 3. - and + 4. \div and \times

General Knowledge and General Awareness

51. Lavani is a traditional dance of which of the following states?

1. Uttar Pradesh 2. Maharashtra
3. Himachal Pradesh 4. Madhya Pradesh

52. Which of the following scientists provided the Law of Octaves?

1. Galileo Galilei 2. John Newlands
3. Michael Faraday 4. Marie Curie

53. Who among the following Bahmani sultan was noted for cruelty and hence got the title as 'Zalim'?
1. Humayun
 2. Firuz Shah
 3. Mujahid Shah
 4. Ahmad Shah
54. According to the Koppen classification, which regions experience cold humid winter with short summers?
1. Western Rajasthan
 2. Northern Madhya Pradesh
 3. South of Goa
 4. Arunachal Pradesh
55. The Rajpath was decided to be a permanent venue for the Republic Day parade from which of the following year onwards?
1. 1959
 2. 1951
 3. 1955
 4. 1958
56. Which disease is caused by NOT having enough vitamin C in the diet for at least 3 months leading to weakness, anaemia, gum disease and skin problems?
1. Pellagra
 2. Rickets
 3. Beriberi
 4. Scurvy
57. What do you call a Glycocalyx that is a loose sheath type?
1. Mesosomes
 2. Capsule
 3. Tubules
 4. Slime layer
58. Assessment of the country's GDP growth, external balance and fiscal balance are presented in which part of the budget document?
1. Medium-term Fiscal Policy Statement
 2. Appropriation bill
 3. Fiscal Policy Strategy Statement
 4. Macroeconomic Framework Statement
59. The seven years of war in the 18th century was fought between Britain and _____.
1. Spain
 2. France
 3. Germany
 4. Portugal
60. At the time of launch of the Smart Cities Mission, how many cities were proposed to be covered under this scheme?
1. 100
 2. 50
 3. 75
 4. 25
61. What is the standard weight of a hockey ball?
1. 161 g - 156 g
 2. 162 g - 156 g
 3. 160 g - 156 g
 4. 163 g - 156 g
62. Choose the correct statement(s) related to 'continentiality'.
- a. The sea exerts a moderating influence on climate.
 - b. As the distance from the sea increases, the people experience extreme weather conditions.
 - c. As one goes from the surface of the earth to higher altitudes, the atmosphere becomes less dense and temperature decreases.
1. a and c
 2. Only c
 3. b and c
 4. a and b
63. The Arms Act was passed in _____ that prevented Indians from keeping arms without an appropriate license.
1. 1909
 2. 1897
 3. 1878
 4. 1912
64. Who takes the salute during the Republic Day parade at New Delhi?
1. Governor
 2. President
 3. Chief Justice
 4. Prime Minister
65. According to the Census of India 2011, which of the following states has the highest Hindu population percentage of total population?
1. Madhya Pradesh
 2. Haryana
 3. Himachal Pradesh
 4. Uttar Pradesh
66. Which Article of the Indian Constitution mentions that all the authorities— civil and judicial— in the territory of India shall act in aid of the Supreme Court?
1. Article 143
 2. Article 144
 3. Article 142
 4. Article 141
67. _____ river has the least storage capacity of usable water.
1. Godavari
 2. Ganges
 3. Brahmaputra
 4. Krishna
68. Dihang and Lohit are rivers in which of the following regions?
1. Sikkim and Manipur
 2. Punjab and Himachal
 3. Arunachal Pradesh and Assam
 4. Jammu and Kashmir
69. With which of the following dance forms is Thumri music associated?
1. Sattriya
 2. Kathakali
 3. Kathak
 4. Bharatanatyam
70. Who among the following Mauryan king fasted to death and died at Shravanabelagola?
1. Bindusara
 2. Dasharatha
 3. Chandragupta Maurya
 4. Ashoka
71. Shifting agriculture is known as _____ in the Western Ghats.
1. kumari
 2. dahiya
 3. koman
 4. waltre
72. In which of the following states are Aus, Boro and Aman paddy crops grown in a year?
1. Punjab
 2. Odisha
 3. Haryana
 4. Uttarakhand
73. The measure of the force that can cause an object to rotate about an axis is called:
1. moment of inertia
 2. power
 3. torque
 4. centripetal force
74. Who among the following classical poets of the Sultanate period in India popularised Qawwali, a form of music which derived its name from the Arabic word 'qaul', meaning 'to speak'?
1. Nizam al-Din Awliya
 2. Jalal al-Din Muhammad Rumi
 3. Amir Khusrau
 4. Shams al-Din Muhammad Hafiz
75. What is the name of the 1,3-isomer (or meta-isomer) of benzenediol with the chemical formula $C_6H_4(OH)_2$?
1. m-Cresol
 2. Resorcinol
 3. Catechol
 4. Glycerol
76. Who was/were the founder(s) of the Theosophical Society?
1. H P Blavatsky and Colonel Olcott
 2. Madam Bhikaji Cama
 3. Annie Besant
 4. Charles W Leadbeater and Emily Lutyens
77. Which Articles of the Indian Constitution describe Fundamental Rights?
1. Articles 5 to 11
 2. Articles 12 to 35
 3. Articles 36 to 51
 4. Articles 52 to 62
78. Which of the following organisms belongs to phylum Apicomplexa?
1. Sponge
 2. Physalia
 3. Hydra
 4. Plasmodium
79. Select the INCORRECT pair of a famous minaret and its construction year in India.
1. Shaheed Minar-1828 CE
 2. Chand Minar-1435 CE
 3. Char Minar-1664 CE
 4. Jhulta Minar-1452 CE
80. In 1932, who discovered the positron, a particle described as 'carrying a positive charge but having a mass of the same order of magnitude as that normally possessed by a free negative electron'?
1. Niels Bohr
 2. Paul Dirac
 3. Ernest Rutherford
 4. Carl Anderson
81. Which of the following rights forbids employment of children below the age of 14 years in dangerous jobs?
1. Right to Equality
 2. Right to Constitutional Remedies
 3. Right against Exploitation
 4. Right to Freedom

82. Which of the following is NOT the manifestation of Iron-deficiency anaemia (IDA)?
 1. Soft palate
 2. Blindness
 3. General pallor
 4. Paleness of conjunctiva of eyes
83. Which of the following books is an autobiography of the Indian politician LK Advani?
 1. Wings of Fire: An Autobiography
 2. My Country My Life
 3. My Times: An Autobiography
 4. In Pursuit of Justice: An Autobiography
84. From which five-year plan did India start its journey of industrialisation?
 1. Third Five-year Plan 2. Second Five-year Plan
 3. Fifth Five-year Plan 4. Fourth Five-year Plan
85. Which of the following statements about green revolution is/are correct?
 I. Green revolution began in the 1960s.
 II. HYV of a seed made green revolution a success.
 III. Extensive use of cattle was also one constituent of green revolution.
 1. Only II and III 2. Only I and II
 3. Only I 4. Only II
86. Ghanakanta Bora Borbayan has been conferred the Padma Shri award for his contribution to which of the following fields?
 1. Bhortal 2. Bagurumba 3. Sattriya 4. Chhau
87. The masculine aspect of the Manipuri classical dance is known as:
 1. Ras 2. Choloms 3. Pareng 4. Maiba
88. Which of the following Articles of the Constitution of India lays down the establishment of Public Service Commissions for the Union and for the States?
 1. Article 315 2. Article 316
 3. Article 317 4. Article 318
89. Which of the following is an indirect tax?
 1. Death duty 2. Interest tax
 3. Goods and services tax 4. Capital gains tax
90. The ball colour in the sport of Ball Badminton should be:
 1. yellow 2. green 3. pink 4. red
91. What is the bicameral legislature of the Indian Constitution?
 1. It is legislative body with three houses.
 2. It is legislative body with two houses.
 3. It is legislative body with one house.
 4. It is legislative body with four houses.
92. Neeruswamy Pillai and Rajaratanam Pillai are exponents of which musical instrument?
 1. Nadaswaran 2. Mandolin
 3. Mridangam 4. Sarangi
93. Living organisms have been on Earth for how much percent of Earth's history?
 1. 80% 2. 20% 3. 60% 4. 40%
94. According to the 2011 Census, which state recorded the lowest literacy rate?
 1. Arunachal Pradesh 2. Bihar
 3. Andhra Pradesh 4. Jharkhand
95. Which Article of the Indian Constitution refers to the Rights of Ministers with respect to the State Legislature?
 1. Article 178 2. Article 177 3. Article 175 4. Article 176
96. In Ball Badminton, players change the ends in each game when a side first scores all of the following, EXCEPT:
 1. 18 2. 9 3. 27 4. 11
97. In 1928, which equation was derived and combines quantum theory and special relativity to describe the behaviour of an electron moving at a relativistic speed?
 1. Bernoulli's equation 2. Lorentz equation
 3. Helmholtz equation 4. Dirac equation
98. The term 'Dribble' is generally associated with _____.
 1. cricket 2. baseball 3. basketball 4. tennis
99. Which of the following Sultans of Delhi was appointed as Amir-i-Tuzuk (Master of Ceremonies) before becoming the Sultan?
 1. Muhammad Bin Tughlaq 2. Alauddin Khilji
 3. Balban 4. Iltutmish
100. Who is the author of the book 'The Soul of a Butterfly: Reflections on Life's Journey'?
 1. Jake LaMotta 2. Eugene J Bullard
 3. Roberto Duran 4. Muhammad Ali

Quantitative Aptitude

101. Find the fourth proportional of 22, 66 and 11.
 1. 23 2. 33 3. 17 4. 39
102. An article is sold at a discount of 25% and an additional discount of 28% is allowed on cash payment. If Ramendra purchased the article by paying ₹10,800 in cash, then what was the marked price of the article?
 1. ₹19,800 2. ₹20,800 3. ₹20,000 4. ₹18,000
103. A shopkeeper marked the price as ₹15,000 on an article, and a successive discount of 5%, 10% and 20% was allowed on it. What is the selling price?
 1. ₹10,260 2. ₹13,520 3. ₹11,520 4. ₹9,850
104. The value of a washing machine depreciated from ₹40,960 to ₹21,970 in 3 years. Find the yearly rate of depreciation.
 1. 25% 2. 16.25% 3. 18.75% 4. 20%
105. A and B are equally efficient, and each can individually complete a piece of work in 36 days, if none takes any holiday. A and B started working together on this piece of work, but A took a day off after every five days of work, while B took a day off after every seven days of work. If the duo had started work on 1 July 2021, on which date was the work completed?
 1. 22 July 2021 2. 19 July 2021
 3. 21 July 2021 4. 20 July 2021
106. The radius of a metallic spherical ball is 3 cm. If the metallic ball is melted and recast into x number of hemispheres of radius equal to half the radius of the metallic spherical ball, then find the value of x .
 1. 15 2. 14 3. 16 4. 13
107. Some ice pieces, spherical in shape, of diameter 6 cm are dropped in a cylindrical container containing some juice and are fully submerged. If the diameter of the container is 18 cm and level of juice rises by 40 cm, then how many ice pieces are dropped in the container?
 1. 95 2. 85 3. 80 4. 90
108. If the slant height of a cone is 29 cm and its height is 20 cm, find the ratio between the magnitudes of total surface area and the volume.
 1. 5 : 14 2. 7 : 15 3. 3 : 7 4. 3 : 14
109. In $\triangle ABC$ with sides 8 cm, 9 cm and 12 cm, the angle bisector of the largest angle divides the opposite sides into two segments. What is the length of the shorter segment?
 1. $5\frac{11}{17}$ cm 2. $4\frac{11}{17}$ cm 3. $6\frac{13}{17}$ cm 4. $3\frac{9}{17}$ cm
110. If $\cot^2\theta = 1 - e^2$, then the value of $\operatorname{cosec}\theta + \cot^3\theta \sec\theta$ is:
 1. $(2 - e^2)^{\frac{1}{2}}$ 2. $(1 - e^2)^{\frac{3}{2}}$ 3. $(1 - e^2)$ 4. $(2 - e^2)^{\frac{3}{2}}$

111. If $\frac{2\sin A - \cos A}{\sin A + \cos A} = 1$, then find the value of $\cot A$.

1. 1 2. $\frac{1}{2}$ 3. $\frac{1}{3}$ 4. 2

112. A, B and C can do a piece of work in 11 days, 20 days and 55 days respectively. How soon can the work be done if A works with B on first day, A works with C on second day and so on?

1. $8\frac{1}{2}$ days 2. $9\frac{1}{2}$ days 3. 8 days 4. 9 days

113. Study the given table and answer the question that follows.

Number of children	Number of families
0	4
1	22
2	15
3	6
4	2

The average number of children per family is:

1. 1.47 2. 1.59 3. 1.23 4. 1.72

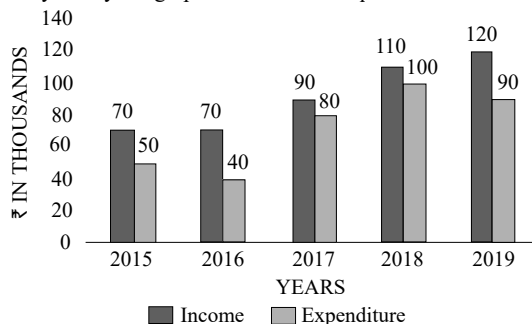
114. A fast local of Mumbai takes 45 minutes less than a slow local for a journey of 150 km. If the speed of the fast local is 10 km/h more than that of the slow local, find the speed (in km/h) of the slow local train.

1. 30 2. 35 3. 45 4. 40

115. In a school of 720 students, the ratio of boys to girls is 3 : 5. Find how many new boys may be allowed to the school if 18 new girls are admitted, so that the ratio of boys to girls changes to 2 : 3.

1. 42 2. 44 3. 50 4. 38

116. The given graph shows the income and expenditure of a family. Study the graph and answer the question that follows.



The expenditure of the family increased by _____ from 2017 to 2018.

1. 25% 2. 11% 3. 22% 4. 20%

117. Which of the following is the greatest four-digit number that is divisible by 15, 25, 40, and 75?

1. 9200 2. 9500 3. 9600 4. 9000

118. What is the average of the first six prime numbers?

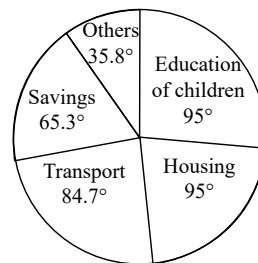
1. $6\frac{1}{3}$ 2. $6\frac{5}{6}$ 3. $6\frac{2}{3}$ 4. $6\frac{1}{6}$

119. Ayush spends 25% of an amount of money on an insurance policy, 26% on food, 23% on children's education and 19% on recreation. He deposits the remaining amount of ₹26,600 in the bank. What is the total amount (in ₹) that he spends on food and recreation together?

1. 1,95,000 2. 1,71,000 3. 1,62,000 4. 1,83,000

120. Study the given pie-chart carefully and answer the question that follows. Degree wise Break-up of Expenditure of a Family in a Month

Total Amount Spent in a Month = ₹56800.



What is the amount spent by the family on housing?

1. ₹11,814 2. ₹6,248 3. ₹10,615 4. ₹12,496

121. The number of balls, each one is 4 cm in the diameter that can be made from a solid metallic sphere of diameter 32 cm is:

1. 256 2. 64 3. 512 4. 1024

122. Simplify the given expression.

$$b + 2a - [(3b + a) - (2a + b) + 2a] - a$$

1. $-a$ 2. b 3. $-b$ 4. a

123. In a store, Arun has two options to buy a mobile phone, either he can pay the full amount of Rs.2,500 or he may buy at an instalment scheme, i.e. Rs.520 in down payment and four equal instalments, rate of interest being charged at 25% p.a. simple interest. Arun buys a mobile phone on the instalment scheme. What is the monthly instalment for Arun?

1. ₹ 510 2. ₹ 530 3. ₹ 550 4. ₹ 520

124. In a 1200 m race, Rakesh reaches the final point in 36 seconds and Rajesh reaches in 40 sec. By how much distance does Rakesh beat Rajesh?

1. 130 m 2. 120 m 3. 140 m 4. 150 m

125. Rakesh runs a coaching institute having 50 faculty members. The average monthly salary of 35 faculty members is ₹37,500. What will be the average monthly salary (in ₹) of the other 15 faculty members, if the average monthly salary of all the 50 faculty members is found to be ₹30,000?

1. 13,000 2. 13,500 3. 12,500 4. 12,000

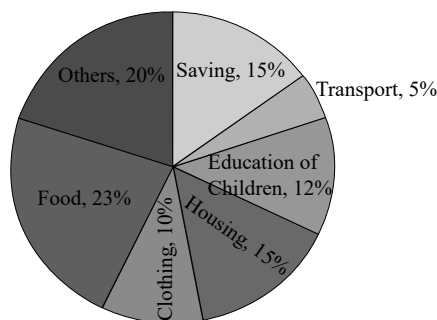
126. If $\sin \theta + \cos \theta = \sqrt{2} \cos \theta$, then find $\frac{\sin \theta - \cos \theta}{\sin \theta}$:

1. $-\sqrt{2}$ 2. -1 3. 1 4. $\sqrt{2}$

127. Ankita sold three toys. The first toy was sold for ₹1,500 at a profit of 25%; the second toy was sold for ₹2,800 at a loss of 50% and the third toy was sold for ₹3,500 at a profit of 25%. Find her total profit or loss percentage.

1. 15.25% loss 2. 15.25% profit
3. 18.75% profit 4. 18.75% loss

128. Study the given pie-chart and answer the question that follows. The pie-chart shows the expenditure of a family on different items and their savings throughout the year 2021.



If the total income for the year was ₹1,00,000, then the difference in the expenses (in ₹) between housing and transport was:

1. 9,500 2. 10,500 3. 9,000 4. 10,000

129. Simplify the given expression.

$$(x - 2y)(y - 3x) + (x + y)(x - y) + (x - 3y)(2x + y)$$

- 1.
- $2y(x - 3y)$
- 2.
- $2y(x + 3y)$
- 3.
- $2x(x - 3y)$
- 4.
- $2x(x + 3y)$

130. The least number of five digits which is exactly divisible by 9, 12, 15, 25 and 27 is:

1. 10800 2. 10250 3. 10700 4. 10600

131. The LCM of two numbers is five times their HCF. If the product of the two numbers is 20480, then find their HCF and LCM, respectively.

1. 46 and 230 2. 48 and 240
-
3. 64 and 320 4. 56 and 280

132. Find the HCF of 125, 250 and 750.

1. 50 2. 25 3. 125 4. 75

133. The LCM of 8, 12 and 18 is:

1. 24 2. 80 3. 72 4. 36

134. Study the given table and answer the question that follows.

The table shows the number of employees in three organisations during three years.

Organization/Year	2018	2019	2020
P	75	69	85
Q	96	81	74
R	85	63	90

140. Study the given table and answer the question that follows.

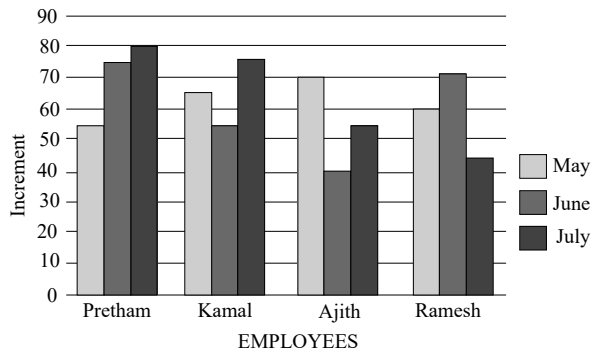
The table shows the number of students in various courses in various cities A, B, C, D and E in India during the academic year 2022-2023.

City	MBA	Science	Engineering	Medicine	MCA	Total
A	1200	2560	4520	1100	960	10340
B	1350	2650	5100	1050	850	11000
C	1250	2640	4580	1120	750	10340
D	1960	1250	3500	1850	1600	10160
E	1200	2100	3500	960	540	8300

During the academic year 2022-2023, which city had the largest number of students?

1. C 2. D 3. A 4. B

141. Study the given bar graph carefully and answer the question that follows. Increment of four employees (in ₹) in the months of May, June and July.



What is Kamal's overall average increment in three months?

1. ₹60 2. ₹70 3. ₹75 4. ₹65

142. A hollow cylindrical tube made of plastic is 3 cm thick. If the external diameter is 20 cm and length of the tube is 49 cm, find the volume of the plastic.

- 1.
- 7238 cm^3
- 2.
- 7644 cm^3
- 3.
- 7546 cm^3
- 4.
- 7854 cm^3

143. The value of
- $2 \tan^2 45^\circ + \cos^2 30^\circ - \sin^2 60^\circ$
- is:

1. 2 2. 1 3. -1 4. -2

144. A shopkeeper sells sugar at ₹40 per kg, which he purchased at ₹36 per kg. His weighing machine is faulty and it weighs only 800 gm while selling. His percentage profit (correct to 2 decimal places) is:

1. 37.58% 2. 40% 3. 39.28% 4. 38.89%

What is the respective ratio between total number of employees in organisations P and R together in 2019 and total number of employees in organisations Q and R together in 2020?

1. 23 : 41 2. 33 : 41 3. 41 : 31 4. 33 : 23

135. The ratio of monthly income and expenditure of a man is 7:3. If his expenditure is ₹5,400, find his monthly income.

1. ₹12,600 2. ₹13,300 3. ₹11,500 4. ₹10,400

136. If 30% of Ravi's income is equal to 40% of Suresh's income, then 50% of Ravi's income is equal to what percentage of Suresh's income?

- 1.
- $66\frac{1}{3}\%$
- 2.
- $33\frac{1}{3}\%$
- 3.
- $33\frac{2}{3}\%$
- 4.
- $66\frac{2}{3}\%$

137. If Arun can complete
- $\frac{2}{3}$
- rd of a work in 12 days, then in how many days can he complete
- $\frac{1}{6}$
- th of the same work?

1. 3 2. 4 3. 5 4. 2

138. The chord of a circle is equal to its radius. Find the difference between the angle subtended by this chord at the minor arc and major arc of the circle.

- 1.
- 30°
- 2.
- 120°
- 3.
- 60°
- 4.
- 150°

139. The length of the common chord of two intersecting circles is 24 cm. If the diameter of the circles are 30 cm and 26 cm, then the distance between the centres (in cm) is:

1. 16 cm 2. 14 cm 3. 18 cm 4. 12 cm

- 145.
- ΔPQR
- is right angled at Q such that
- $PQ = (x - y)$
- ,
- $QR = x$
- and
- $PR = (x + y)$
- . S is a point on QR such that
- $QS = PQ$
- . The ratio
- $QS : SR$
- for any values of x and y is:

1. 3 : 1 2. 2 : 1 3. 1 : 2 4. 1 : 3

146. The following table represents the number of scooters sold by 5 stores in 4 different months in the year 2022.

Month/Stores	A	B	C	D	E
January	212	168	173	182	190
February	312	250	212	175	182
March	280	275	265	255	245
April	270	280	290	305	275

Find the ratio between the total number of scooters sold by stores A and B together in January and the total number of scooters sold by stores D and E together in March?

1. 20 : 23 2. 18 : 23 3. 17 : 25 4. 19 : 25

147. A man covers a certain distance by bike. If he covers 25% of the distance at the speed of 25 km/h, 50% of the distance at the speed of 50 km/h and the remaining distance at the speed of 12.5 km/h, find his average speed over the whole journey.

1. 20 km/h 2. 30 km/h 3. 25 km/h 4. 35 km/h

148. If the sum of two numbers is 60 and their HCF and LCM are 5 and 60, respectively, then the sum of the reciprocals of the numbers will be:

- 1.
- $\frac{1}{11}$
- 2.
- $\frac{1}{6}$
- 3.
- $\frac{1}{4}$
- 4.
- $\frac{1}{5}$

149. The following table gives the number of different types of batteries sold by a company over the years (numbers in hundreds).

Year/Type of battery	7AH	32AH	35AH	55AH
2018	20	30	40	50
2019	40	35	45	45
2020	50	40	40	40
2021	40	50	50	45
2022	45	45	35	55

What is the difference in the number of 7AH batteries sold in 2021 and 2022?

1. 200 2. 700 3. 300 4. 500

150. The HCF and LCM of two numbers are 9 and 126, respectively. Find the larger number, if the ratio between the numbers is 2 : 7.

1. 42 2. 63 3. 77 4. 21

English Comprehension

151. Select the most appropriate option that can substitute the underlined segment in the given sentence.

The concert was filled with rap teenage listeners.

1. really fashionable 2. boldly dressed
3. truly energetic 4. fully attentive

152. Select the most appropriate ANTONYM of the given word.
Decline

1. Escape 2. Ascend
3. Demonstrate 4. Traverse

153. Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

It was a quite afternoon, so Dan decided to take a nap.

1. an quiet 2. an quite
3. No substitution required 4. a quiet

154. Select the most appropriate option to fill in the blank.

This is not _____ exhaustive list of words.

1. many 2. an
3. a 4. No word required

155. Select the most appropriate meaning of the highlighted idiom in the given sentence.

She said she liked my hair, but it turned out to be a left handed compliment.

1. A joke 2. A flattery 3. An insult 4. A praise

156. Select the most appropriate ANTONYM of the given word.
Redemption

1. Salvation 2. Blasphemy
3. Corrugation 4. Conjunction

157. Parts of the following sentence have been underlined and given as options. Select the option that contains an error.

Have they been work in that particular shop for several years?

1. work 2. been 3. for 4. Have

158. Select the correct spelling of the incorrectly spelt word.

He had a round face made jovial by bright, almost boyish eyes and eyebrows ridiculously small for a man his size.

1. ridicolusly 2. jouvial 3. juvial 4. ridiculously

159. Select the word segment that substitutes (replaces) the bracketed word segment correctly and completes the sentence meaningfully:

Unless you (do will not prepare) well you will not perform well.

1. would not prepare

2. prepare

3. will do not prepare

4. will prepare

160. Select the most appropriate meaning of the given idiom.

Bite the bullet

1. Decide to do what is good
2. To bite something very hard
3. Decide to do the inevitable which you were avoiding
4. Decide to take the easier way out

161. Select the most appropriate ANTONYM of the given word.

Resolute

1. Serious 2. Wavering 3. Steadfast 4. Brave

162. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

Roger went / to an United Kingdom / with his wife / to celebrate Christmas.

1. Roger went 2. to an United Kingdom
3. to celebrate Christmas 4. with his wife

163. Some words in the following sentences have been underlined and given as options. Select the option that contains a spelling error.

Why is everyone so dressed up? What's the occaseon? Is it a wedding?

1. wedding 2. occaseon 3. everyone 4. dressed

164. Select the option that can be used as a one-word substitute for the given group of words.

To restrain or compel a person to do something by force.

1. Convoy 2. Consensus 3. Coerce 4. Casualty

165. Select the most appropriate option that can substitute the underlined segment in the given sentence.

Health insurance are important today since anyone can face a medical emergency without warning.

1. will be important 2. has been important
3. was important 4. is important

166. Select the most appropriate meaning of the given idiom.

Spill the beans

1. To make anything visible
2. To reveal secret information
3. To ruin someone's plan
4. To talk randomly

167. Select the option that will improve the underlined part of the given sentence.

People say different things at different times.

1. should say fanciful things at different times
2. says delectable things at different times
3. says whimsical things at different times
4. say diverse things at different times

168. Select the most appropriate ANTONYM of the given word.

Together

1. Apart 2. United 3. Freight 4. Engulf

169. Select the most appropriate ANTONYM of the given word.

Magnificent

1. Impressive 2. Peaceful 3. Quiet 4. Modest

170. Select the most appropriate idiom to fill in the blank.

I have all the technical and communication skills necessary to crack any interview; it will be _____.

1. a storm in a tea cup 2. a chip on my shoulder
3. a hard nut to crack 4. a piece of cake for me

171. Select the most appropriate idiom for the underlined word segment.

He seems to be undecided about whether to move to another city for better prospects.

1. Bouncing off the walls 2. Running out of steam
3. Sitting on the fence 4. Counting down the days

172. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.
I have a dog and a cow. / A dog is black / but the cow is / black and white.
1. A dog is black 2. black and white
3. but the cow is 4. I have a dog and a cow
173. Select the most appropriate synonym of the underlined word.
Improved rail transport is essential for business.
1. Recommended 2. Trivial
3. Crucial 4. Technical
174. Select the most appropriate synonym of the given word.
Desolate
1. Fortunate 2. Sturdy 3. Depressive 4. Hopeful
175. Select the option that can be used as a one-word substitute for the given group of words.
An act of exchanging information
1. Collaboration 2. Communication
3. Touch 4. Hold
176. Select the correct spelling of the incorrectly spelt word.
They were more often abnoxious than not, impatient with me because my services had been essentially imposed upon them.
1. obnoxious 2. impatint 3. servises 4. essentially
177. Select the most appropriate ANTONYM of the underlined word in the given sentence.
All members of the association adhere to a strict code of practice.
1. observe 2. cling 3. flout 4. comply
178. Select the most appropriate ANTONYM for the highlighted word.
She has a penchant for art and craft.
1. anxiety 2. hatred 3. fear 4. joy
179. Select the most appropriate option that can substitute the underlined segment in the given sentence.
The team leader tried to remain positive or optimistic in the situation, even though they were facing tough competition and limited resources.
1. to put a strong hand forward
2. to put on a strong exterior
3. to put a strong desire in front of
4. to put a brave face on
180. Select the most appropriate ANTONYM of the given word.
Superb
1. Infallible 2. Incurable 3. Inferior 4. Splendid
181. Choose the most appropriate meaning of the underlined phrase.
He was carried off his feet when he was declared to have won the prize.
1. Was wild with excitement 2. Was dizzy
3. Became delirious 4. Danced on his toes
182. Select the most appropriate phrasal verb to fill in the blank.
It took seven years for Harish to _____ his migraine.
1. shake down 2. shake up 3. shake out 4. shake off
183. Select the most appropriate meaning of the underlined idiom that can be substituted in the following sentence.
The new routine will suit you to a T.
1. nicely 2. a little bit 3. exactly 4. very poorly
184. Select the most appropriate meaning of the given idiom.
Spill the beans
1. Sound familiar 2. Fail to make an impact
3. To be very expensive 4. Give away a secret
185. Replace the underlined segment with the most appropriate idiom/phrase from the following options.
This is the critical point of the issue. One should always be focused on it.
1. Chip off the old block 2. A black sheep
3. The crux of the matter 4. Don't cry over spilt milk
186. Select the most appropriate option that can substitute the underlined segment in the given sentence.
I like all games instead of cricket.
1. rather 2. exclude 3. object 4. except
187. Select the option that can be used as a one-word substitute for the given group of words.
Requiring exceptional skill or caution in performance or handling
1. Blunt 2. Tricky 3. Sustainable 4. Abstract
188. The following sentence has been divided into parts. One of them may contain an error.
Select the part that contains the error from the given options.
If you don't find any error, mark 'No error' as your answer.
(1) He could / (2) be pass his exams / (3) if he studied harder. / (4) No error
1. 2 2. 1 3. 3 4. 4
189. Select the most appropriate option that can substitute the underlined word which has been incorrectly spelt.
They have begun to study in separate rooms.
1. saperate 2. separate 3. seprate 4. saparate
190. Select the sentence that has a spelling error.
A. One has to understand the rudimentary fact that intelligence and intellect are at two opposite poles.
B. An intellectual person may have all the knowledge of the world but won't know how to give it a shape.
C. Knowledge will plague the individual if he does not have the intelligence to express it.
D. Without basic intelligence, an individual is trapped within himself manifesting conflicts and ignorance in the external world.
1. Without basic intelligence, an individual is trapped within himself, manifesting conflicts and ignorance in the external world.
2. An intellectual person may have all the knowledge of the world but won't know how to give it a shape.
3. Knowledge will plague the individual if he does not have the intelligence to express it.
4. One has to understand the rudimentary fact that intelligence and intellect are at two opposite poles.
- In the following passage some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.**
Rabindranath Tagore founded a small school at Santiniketan in 1901 and Kala Bhavan, an art school, in 1919 which (1)_____ became a part of the Visvabharati University founded in 1921. Located in an (2)_____ village some distance from the city of Calcutta, Kala Bhavan presented an alternative methodology of art training, in which studio based practice was (3)_____ in favour of learning through observation and living as a part of nature. The natural surroundings with the (4)_____ of bare red earth dotted with trees, the colours of the changing seasons, the animals and birds (5)_____ inspiration to students.
191. Select the most appropriate option to fill in blank no. 1.
1. better 2. later 3. faster 4. slower
192. Select the most appropriate option to fill in blank no. 2.
1. normal 2. magical 3. reliable 4. idyllic

193. Select the most appropriate option to fill in blank no. 3.

1. accepted 2. rejected
3. investigated 4. aspired

194. Select the most appropriate option to fill in blank no. 4.

1. vistas 2. murk 3. haze 4. band

195. Select the most appropriate option to fill in blank no. 5.

1. groomed 2. refused 3. provided 4. agreed

Read the given passage carefully and answer the questions that follow.

Mountains occupy about a quarter of the Earth's land, harbour most of its biodiversity hotspots and supply fresh water to an estimated half of humanity. Present on every continent, mountains include a multitude of ecosystems holding many unique species such as snow leopards and mountain gorillas. They are also home to great cultural diversity among people adapted to the challenges of mountain life. Their special traditions and breath-taking scenery attract ever-growing numbers of tourists.

Mountain regions are particularly sensitive to degradation from both human pressures and climate change. Steep slopes mean the clearing of forest for farming, settlements or infrastructure can cause serious soil erosion as well as the loss of habitat. Erosion and pollution harm the quality of water

flowing downstream. Climate change threatens the quantity and timing of water supplies to farms, cities, industry and power stations. Fast-rising temperatures are forcing mountain species, ecosystems and the people that depend on them to adapt or migrate.

196. What is the ANTONYM for the word 'diversity' from the passage?

1. Block 2. Dilemma
3. Uniformity 4. Heritage

197. What is the ANTONYM for the word 'migrate' from the passage?

1. Stay 2. Run 3. Die 4. Assume

198. Which is the best description of the tone of the passage?

1. Laudatory 2. Emotional
3. Biased 4. Humanistic

199. Which of the following represents the structure of the passage?

1. Chronological 2. Definition
3. Compare and contrast 4. Cause-effect

200. Which of the following most accurately states the central idea of the passage?

1. Pollution 2. Mountain ecosystem
3. Biodegradation 4. Climate change

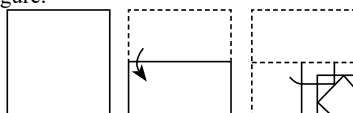
Answer Key

1. (4)	2. (2)	3. (2)	4. (2)	5. (2)	6. (4)	7. (2)	8. (2)	9. (1)	10. (3)
11. (3)	12. (2)	13. (2)	14. (4)	15. (2)	16. (1)	17. (4)	18. (2)	19. (1)	20. (4)
21. (2)	22. (1)	23. (3)	24. (1)	25. (2)	26. (3)	27. (1)	28. (3)	29. (3)	30. (3)
31. (4)	32. (3)	33. (4)	34. (1)	35. (3)	36. (1)	37. (1)	38. (3)	39. (2)	40. (2)
41. (1)	42. (3)	43. (2)	44. (2)	45. (3)	46. (4)	47. (4)	48. (3)	49. (1)	50. (3)
51. (2)	52. (2)	53. (1)	54. (4)	55. (3)	56. (4)	57. (4)	58. (4)	59. (2)	60. (1)
61. (4)	62. (4)	63. (3)	64. (2)	65. (3)	66. (2)	67. (3)	68. (3)	69. (3)	70. (3)
71. (1)	72. (2)	73. (3)	74. (3)	75. (2)	76. (1)	77. (2)	78. (4)	79. (3)	80. (4)
81. (3)	82. (2)	83. (2)	84. (2)	85. (2)	86. (3)	87. (2)	88. (1)	89. (3)	90. (1)
91. (2)	92. (1)	93. (1)	94. (2)	95. (2)	96. (4)	97. (4)	98. (3)	99. (2)	100. (4)
101. (2)	102. (3)	103. (1)	104. (3)	105. (3)	106. (3)	107. (4)	108. (1)	109. (1)	110. (4)
111. (2)	112. (3)	113. (2)	114. (4)	115. (1)	116. (1)	117. (3)	118. (2)	119. (2)	120. (4)
121. (3)	122. (3)	123. (4)	124. (2)	125. (3)	126. (1)	127. (4)	128. (4)	129. (1)	130. (1)
131. (3)	132. (3)	133. (3)	134. (2)	135. (1)	136. (4)	137. (1)	138. (2)	139. (2)	140. (4)
141. (4)	142. (4)	143. (1)	144. (4)	145. (1)	146. (4)	147. (3)	148. (4)	149. (4)	150. (2)
151. (4)	152. (2)	153. (4)	154. (2)	155. (3)	156. (2)	157. (1)	158. (4)	159. (2)	160. (3)
161. (2)	162. (2)	163. (2)	164. (3)	165. (4)	166. (2)	167. (4)	168. (1)	169. (4)	170. (4)
171. (3)	172. (1)	173. (3)	174. (3)	175. (2)	176. (1)	177. (3)	178. (2)	179. (4)	180. (3)
181. (1)	182. (4)	183. (3)	184. (4)	185. (3)	186. (4)	187. (2)	188. (1)	189. (2)	190. (4)
191. (2)	192. (4)	193. (2)	194. (1)	195. (3)	196. (3)	197. (1)	198. (4)	199. (4)	200. (2)

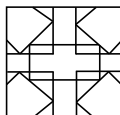
Answers with Explanations

1. Option (4) is correct.

Given figure:



After unfolding the paper as shown, the following image will be formed:



2. Option (2) is correct.

Given sets:

(53, 36, 25)

(71, 54, 43)

The pattern followed here is:

1st term - 17 = 2nd term and

2nd term - 11 = 3rd term

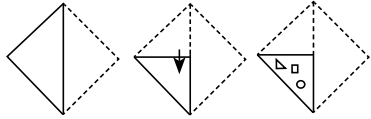
So, for (53, 36, 25)

53 - 17 = 36 and

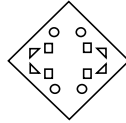
36 - 11 = 25

- 14.
- Option (4) is correct.**

Given figure:



After unfolding the paper, the result image is as follows:



- 15.
- Option (2) is correct.**

Given equation:

$$11 \text{ B } 12 \text{ C } 144 \text{ D } 24 \text{ A } 57 = ?$$

After putting the signs as per question, we get

$$11 \times 12 - 144 \div 24 + 57$$

According to BODMAS rule,

$$\Rightarrow 11 \times 12 - 6 + 57$$

$$\Rightarrow 132 - 6 + 57$$

$$\Rightarrow 189 - 6 = 183$$

Hence, 183 is the correct answer.

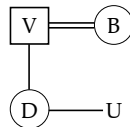
- 16.
- Option (1) is correct.**

Given expression:

$$D * V + B \times U$$

As per the question, following family tree can be made:

Hence, D is the sister of U.



- 17.
- Option (4) is correct.**

As per the question, following GRID pattern can be made:

Hence, S is the North-West direction of T.

- 18.
- Option (2) is correct.**

Given that:

SPAM is coded as '36'

The pattern followed here is:

Number of letters in the word $\times 9$

So, for SPAM

$$\Rightarrow 4 \times 9 = 36$$

And, for JUG

$$\Rightarrow 3 \times 9 = 27$$

Similarly, for FROCK

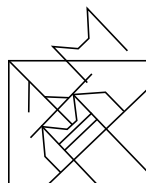
$$\Rightarrow 5 \times 9 = 45$$

Hence, 45 is the correct answer.

- 19.
- Option (1) is correct.**

Given image:

The given image is embedded in option 1 as highlighted below:



- 20.
- Option (4) is correct.**

The pattern followed here is:

$$\text{Option-1 } S \xrightarrow{-1} R \xrightarrow{+5} W \xrightarrow{+1} X$$

$$\text{Option-2 } H \xrightarrow{-1} G \xrightarrow{+5} L \xrightarrow{+1} M$$

$$\text{Option-3 } P \xrightarrow{-1} O \xrightarrow{+5} T \xrightarrow{+1} U$$

$$\text{Option-4 } D \xrightarrow{-2} B \xrightarrow{+5} G \xrightarrow{+1} H$$

Hence, DBGH is the odd letter-cluster.

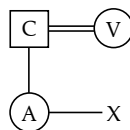
- 21.
- Option (2) is correct.**

Given expression:

$$A \# C \$ V + X$$

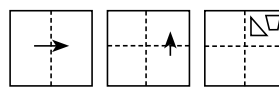
As per the question, following family tree can be made:

Hence, A is the sister of X.

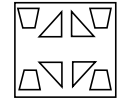


- 22.
- Option (1) is correct.**

Given image:



After unfolding the paper, the resultant answer image is:



- 23.
- Option (3) is correct.**

Given sets:

$$(112, 327, 215)$$

$$(98, 254, 156)$$

The pattern followed here is:

$$1^{\text{st}} \text{ term} + 3^{\text{rd}} \text{ term} = 2^{\text{nd}} \text{ term}$$

So, for 1st set:

$$112 + 215 = 327$$

$$\Rightarrow 327 = 327$$

And, for 2nd set:

$$98 + 156 = 254$$

$$\Rightarrow 254 = 254$$

Similarly, upon checking option 3, we get

$$126 + 142 = 268$$

$$\Rightarrow 268 = 268$$

Hence, (126, 268, 142) follows the same pattern.

- 24.
- Option (1) is correct.**

Given sets:

$$(5, 4, 2)$$

$$(9, 9, 3)$$

The pattern followed here is:

$$(1^{\text{st}} \text{ term} \times 2) - (3^{\text{rd}} \text{ term} \times 3) = 2^{\text{nd}} \text{ term}$$

So, for (5, 4, 2)

$$(5 \times 2) - (2 \times 3)$$

$$\Rightarrow 10 - 6 = 4$$

And, for (9, 9, 3)

$$(9 \times 2) - (3 \times 3)$$

$$\Rightarrow 18 - 9 = 9$$

Similarly, upon checking option (1), we get

$$(21 \times 2) - (1 \times 3)$$

$$\Rightarrow 42 - 3 = 39$$

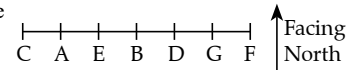
Hence, it is the correct option.

- 25.
- Option (2) is correct.**

Given that:

Seven people are sitting in a straight row facing north.

As per the statements in the question, following sitting arrangement can be made:



Hence, C sits to the immediate left of A.

- 26.
- Option (3) is correct.**

The correct order of the given words is as follows:

4. Brief
3. Bright
2. Brine
5. Brocade
1. Brochure

Hence, 4, 3, 2, 5, 1 is the correct order.

- 27.
- Option (1) is correct.**

Given equation:

$$79 \div 64 \times 8 - 7 + 12 = ?$$

After interchanging the signs as per question, we get

$$79 + 64 \div 8 \times 7 - 12 = ?$$

According to BODMAS rule

$$\Rightarrow 79 + 8 \times 7 - 12$$

$$\Rightarrow 79 + 56 - 12$$

$$\Rightarrow 135 - 12 = 123$$

Hence, 123 is the correct answer.

28. Option (3) is correct.

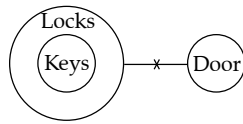
As per the given statements, following Venn diagram can be made:

Conclusion I- Some locks are doors \rightarrow False

Conclusion II- Some locks are keys \rightarrow True

Conclusion III- No key is a door \rightarrow True

Hence, both conclusions II and III follows.



29. Option (3) is correct.

Given that:

Words and there codes:

Live (long) \rightarrow mu (ae)

Road (is) (long) \rightarrow (ae) (si) du

(Game) (is) live \rightarrow (si) mu (zt)

Hence, Game is coded as 'zt'.

30. Option (3) is correct.

Given equation:

$$42 \div 7 + 11 \times 87 - 12 = 141$$

Upon checking option 3 and interchanging \times and $+$, we get

$$42 \div 7 \times 11 + 87 - 12 = 141$$

$$\Rightarrow 6 \times 11 + 87 - 12 = 141$$

$$\Rightarrow 66 + 87 - 12 = 141$$

$$\Rightarrow 153 - 12 = 141$$

$$\Rightarrow 141 = 141$$

LHS = RHS

Hence, it is the correct option.

31. Option (4) is correct.

Given that:

Pressure : Barometer :: Electricity : ?

Here, a barometer is an instrument which is used to measure pressure.

Similarly, multimeter is an instrument which is used to measure electricity.

Hence, multimeter is the correct answer.

32. Option (3) is correct.

Given series:

270, 241, 212, ?, 154, 125

The pattern followed here is:

$$270 - 29 = 241$$

$$241 - 29 = 212$$

$$212 - 29 = 183$$

$$183 - 29 = 154$$

$$154 - 29 = 125$$

Hence, 183 is the missing number.

33. Option (4) is correct.

Given pairs:

$$25 : 18 :: 37 : ? :: 49 : 36$$

The pattern followed here is:

$$1^{\text{st}} \text{ term} - \text{sum of numbers in } 1^{\text{st}} \text{ term} = 2^{\text{nd}} \text{ term}$$

So, for (25 : 18)

$$25 - (2 + 5)$$

$$\Rightarrow 25 - 7 = 18$$

And, for (49 : 36)

$$49 - (4 + 9)$$

$$\Rightarrow 49 - 13 = 36$$

Similarly, for (37 : ?)

$$37 - (3 + 7)$$

$$\Rightarrow 37 - 10 = 27$$

Hence, 27 is the correct answer.

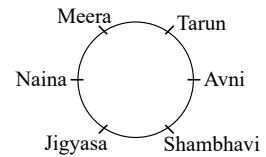
34. Option (1) is correct.

Given that:

Six students are sitting around a circular table facing the centre.

As per the questions, following sitting arrangement can be made:

Hence, Meera is sitting second to the left of Jigyasa.



35. Option (3) is correct.

Given series:

BRCQ, EPFO, ?, KLLK, NJOI

The pattern followed here is:

B	R	C	Q
-3	-4	-3	-4
E	P	F	O
-3	-4	-3	-4
H	N	I	M
+3	-2	+3	-2
K	L	L	K
+3	-2	+3	-2
N	J	O	I

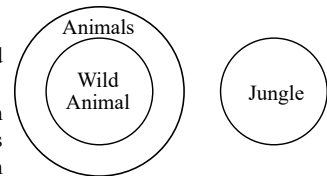
Hence, HNIM is the correct answer.

36. Option (1) is correct.

Given words:

Animal, Jungle, Wild Animal

The following Venn diagram best represents the relationship between the words.



37. Option (1) is correct.

Given sheet:

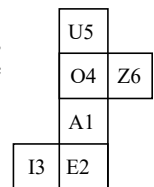
After forming a cube from the above sheet, the following pairs of letter-number will be opposite:

U5 - A1

O4 - E2

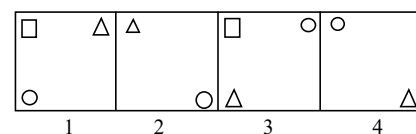
I3 - Z6

Hence, U5 is the face opposite to A1.

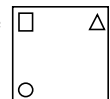


38. Option (3) is correct.

Given figure:



As per the pattern followed and the symmetry, the 5th figure to continue the series is:



39. Option (2) is correct.

Given pairs:

Centre : Focus :: Vicar : ?

Here, focus is a central point of concentration or attention.

Similarly, a vicar is a clergyman who is in charge of a particular church or parish. The central figure or point of focus

in a religious context for a vicar would be a 'Priest'.
Hence, Priest is the correct answer.

40. Option (2) is correct.

The pattern followed here is:

Option-1: $M \xrightarrow{+2} O \xrightarrow{-4} K \xrightarrow{+3} N$

Option-2: $S \xrightarrow{-2} Q \xrightarrow{+4} U \xrightarrow{-13} H$

Option-3: $G \xrightarrow{+2} I \xrightarrow{-4} E \xrightarrow{-11} T$

Option-4: $C \xrightarrow{+2} E \xrightarrow{-4} A \xrightarrow{-3} X$

Hence, upon considering first three letters of all the clusters, SQUH is the odd one out.

41. Option (1) is correct.

Given equation:

$$39 \div 3 - 11 + 57 \times 29 = 171$$

Upon checking option 1 and interchanging $-$ and \times , we get

$$39 \div 3 \times 11 + 57 - 29 = 171$$

$$\Rightarrow 13 \times 11 + 57 - 29 = 171$$

$$\Rightarrow 143 + 57 - 29 = 171$$

$$\Rightarrow 200 - 29 = 171$$

$$\Rightarrow 171 = 171$$

$$\text{LHS} = \text{RHS}$$

Hence, it is the correct option.

42. Option (3) is correct.

As per the question, following direction chart can be made:

Since, $AB = 6 \text{ km}$

$CD = 3 \text{ km}$

and $EF = (2x + 1) \text{ km}$

As we can see, the distance between E and F is similar to the distance between D and B vertically. So,

$$DC + AB = EF$$

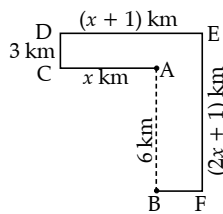
$$\Rightarrow 3 + 6 = 2x + 1$$

$$\Rightarrow 9 = 2x + 1$$

$$\Rightarrow 2x = 8$$

$$\Rightarrow x = 4$$

Hence, 4 is the correct answer.



43. Option (2) is correct.

Given that:

PIN is coded as 9

The pattern followed here is:

(Number of letters in the word)²

So, for PIN

Number of letters = 3

$$\Rightarrow (3)^2 = 9$$

And, for CHARGER

Number of letter = 7

$$\Rightarrow (7)^2 = 49$$

Similarly, for CABLE

Number of letters = 5

$$\Rightarrow (5)^2 = 25$$

Hence, 25 is the correct answer.

44. Option (2) is correct.

Given series:

5, 20, 60, 240, 720, ?

The pattern followed here is:

$$5 \times 4 = 20$$

$$20 \times 3 = 60$$

$$60 \times 4 = 240$$

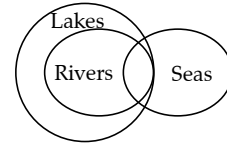
$$240 \times 3 = 720$$

$$720 \times 4 = 2880$$

Hence, 2880 is the correct answer.

45. Option (3) is correct.

As per the statements, following Venn diagram can be made:



Conclusion I- Some seas are lakes \rightarrow True

Conclusion II- All lakes are river \rightarrow It is possible but not definite. So, false.

Hence, only conclusion I follows.

46. Option (4) is correct.

Given equation:

$$39 \times 3 - 11 \div 57 + 29 = ?$$

After interchanging signs as per question, we get

$$38 \div 3 \times 11 + 57 - 29 = ?$$

According to BODMAS rule,

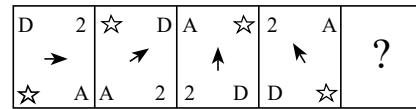
$$\Rightarrow 13 \times 11 + 57 - 29$$

$$\Rightarrow 143 + 57 - 29$$

$$\Rightarrow 200 - 29 = 171$$

47. Option (4) is correct.

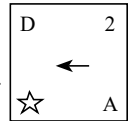
Given figure:



Here, each letter, number, or shape which is in the corners is shifting one step forward in clockwise direction.

And, the arrow in the middle is shifting half step backward in anti-clockwise direction.

Hence, the required answer figure is:



48. Option (3) is correct.

Given equation:

$$21 \text{ O } 5 \text{ P } 69 \text{ N } 3 \text{ P } \sqrt{225} \text{ M } 88 = ?$$

After putting the signs, we get

$$21 \times 5 + 69 \div 3 + \sqrt{225} - 88 = ?$$

According to BODMAS rule,

$$\Rightarrow 21 \times 5 + 23 + 15 - 88$$

$$\Rightarrow 105 + 23 + 15 - 88$$

$$\Rightarrow 143 - 88 = 55$$

Hence, 55 is the correct answer.

49. Option (1) is correct.

Given series:

69, 65, 67, 63, ?, 61

The pattern followed here is:

$$69 - 4 = 65$$

$$65 + 2 = 67$$

$$67 - 4 = 63$$

$$63 + 2 = 65$$

$$65 - 4 = 61$$

Hence, 65 is the missing number.

50. Option (3) is correct.

Given equation:

$$(45 \times 2) \div 15 - (6 \times 3) + 10 - (63 \div 21) = 17$$

Upon checking option 3 and interchanging $-$ and $+$, we get

$$(45 \times 2) \div 15 + (6 \times 3) - 10 + (63 \div 21) = 17$$

According to BODMAS rule,

$$\Rightarrow 90 \div 15 + 18 - 10 + 3 = 17$$

$$\Rightarrow 6 + 18 - 10 + 3 = 17$$

$$\Rightarrow 27 - 10 = 17$$

$$\Rightarrow 17 = 17$$

$$\text{LHS} = \text{RHS}$$

Hence, it is the correct option.

51. Option (2) is correct.

Lavani is a popular and vibrant dance form that originated in the state of Maharashtra in India. It is known for its energetic and rhythmic movements and is often performed on various festive occasions and celebrations.

52. Option (2) is correct.

John Newlands was a British chemist who proposed the Law of Octaves in the 1860s. According to the Law of Octaves, every eighth element in the sequence of elements exhibited similar properties. While this law had limitations and was not as comprehensive as the modern periodic table, it was an important early step in understanding the organization of chemical elements.

53. Option (1) is correct.

Alauddin Humayun Shah Bahmani, who ruled the Bahmani Sultanate from 1458 to 1461, is famously known as Humayun Shah Zalim, which translates to Humayun Shah the cruel. His reign is marked by a reputation for extreme cruelty, as he was notorious for subjecting individuals to agonizing and torturous executions.

54. Option (4) is correct.

Arunachal Pradesh, located in northeastern India, has a climate that features a subtropical highland climate in its higher elevations, where it can experience cold winters and relatively short summers. The Koppen classification may not precisely align with the climate of specific regions, as it's a more generalized system.

55. Option (3) is correct.

In 1955, the authorities officially designated Rajpath, a ceremonial avenue in New Delhi, as the enduring location for the Republic Day parade. This choice was made to acknowledge the historical and symbolic importance of Rajpath for this significant national event.

56. Option (4) is correct.

Scurvy results from a prolonged deficiency of vitamin C (ascorbic acid) in one's diet. Insufficient vitamin C intake for a minimum of 3 months can give rise to various symptoms, encompassing weakness, anemia, gum issues like gingivitis, and skin problems. Key indicators of scurvy include bleeding gums, bruising, fatigue, and assorted health-related complications.

57. Option (4) is correct.

Glycocalyx is a gel-like substance around bacterial cell membranes. It has two main forms: capsule (dense and firm) and slime layer (loose). The loose type, is the slime layer. Mesosomes and tubules are unrelated internal structures in bacterial cells.

58. Option (4) is correct.

The Macroeconomic Framework Statement is submitted to Parliament in accordance with Section 3(5) of the Fiscal Responsibility and Budget Management Act, 2003. This statement includes an evaluation of the economic growth outlook and outlines the precise underlying assumptions on which these assessments are based.

59. Option (2) is correct.

The Seven Years' War, which took place from 1756 to 1763, was a global conflict involving many countries. Nevertheless, a significant battleground in this war was North America,

where the principal adversaries were the British and the French. This conflict held profound colonial and imperial significance and is frequently seen as a pivotal component of the broader competition for global supremacy among European powers in the 18th century.

60. Option (1) is correct.

The Smart Cities Mission, launched by the Government of India, aimed to develop, and transform 100 cities across the country into smart cities. These smart cities were intended to have improved infrastructure, sustainability, and technology integration to enhance the quality of life for their residents and to promote economic development.

61. Option (4) is correct.

The standard weight of a hockey ball typically falls within the specified range, which is 163 grams to 156 grams. This range ensures that the hockey ball meets the required standards for the sport and is used in various field hockey competitions.

62. Option (4) is correct.

The correct statement related with continentality is option a and b.

63. Option (3) is correct.

The Arms Act that prevented Indians from keeping arms without an appropriate license was passed in 1878. This law was enacted during the British colonial period and imposed restrictions on the possession of firearms in India.

64. Option (2) is correct.

The President of India is the chief guest and the highest-ranking dignitary during the Republic Day parade. The President takes the salute as the Commander-in-Chief of the Indian Armed Forces. This tradition is an important part of the Republic Day celebrations in India. The other officials mentioned (Governor, Chief Justice, Prime Minister) do not typically take the salute during the Republic Day parade; it is the President's prerogative.

65. Option (3) is correct.

According to the Census of India 2011, Himachal Pradesh had the highest Hindu population percentage of the total population among the states mentioned in the question. It has a significant Hindu population compared to its other religious communities.

66. Option (2) is correct.

Article 144 of the Indian Constitution states that all authorities, including civil and judicial authorities, in the territory of India shall act in aid of the Supreme Court. This means they must obey and follow the orders and decisions of the Supreme Court. This rule is very important for making sure the Supreme Court is respected and its decisions are followed in India.

67. Option (3) is correct.

The Brahmaputra basin, despite its substantial annual water flow, has the smallest storage capacity for usable water.

68. Option (3) is correct.

The Dihang River, also known as the Siang River, and the Lohit River can be found in the northeastern part of India. They flow through Arunachal Pradesh and extend into Assam. These rivers are crucial tributaries of the Brahmaputra River and play a significant role in shaping the geography of the Arunachal Pradesh and Assam regions.

69. Option (3) is correct.

Thumri is a genre of North Indian classical music and is closely associated with the Kathak dance form. Thumri music is often performed alongside Kathak dance to express various emotions and stories through a combination of music and

dance. Although Thumri can be adapted to other dance styles and musical situations, it has a particularly strong connection to Kathak.

70. Option (3) is correct.

Chandragupta Maurya, the founder of the Mauryan Empire, is known for renouncing his throne and worldly life. He embraced Jainism and undertook a prolonged fast, ultimately leading to his death at Shravanabelagola in Karnataka, India. This event marked his withdrawal from political power and is a significant episode in ancient Indian history. Ashoka, his grandson, later became one of the most famous Mauryan rulers.

71. Option (1) is correct.

Kumari is the term used for shifting agriculture in the Western Ghats, a mountain range in western India known for its rich biodiversity and unique ecosystems. It is a type of farming where people clear a piece of land, plant crops, then leave it alone for a while to heal. While it's resting, they work on another piece of land. It's an old way of farming, especially in hilly and forested areas, like some parts of the Western Ghats. This helps the land recover, and it's sometimes called slash-and-burn farming.

72. Option (2) is correct.

In Odisha, a state in eastern India, they grow three different kinds of rice called Aus, Boro, and Aman. These types of rice are good for the weather and how they farm in Odisha. But in places like Punjab, Haryana, and Uttarakhand, they grow different crops and have their own farming ways.

73. Option (3) is correct.

Torque is the term used to describe the force that can make an object spin around an axis or a point where it rotates. This twisting force is measured in units like newton-meters (Nm) or foot-pounds (ft-lb).

74. Option (3) is correct.

Amir Khusrau, a celebrated classical poet during the Sultanate era in India, is known for popularizing Qawwali, a music form named after the Arabic word qaul, meaning to speak. He was not just a prolific poet but also a talented musician and a follower of the Sufi saint Nizam al-Din Awliya. Amir Khusrau's creative contributions in both music and poetry greatly shaped the emergence of Qawwali as a unique and influential musical style. While the other mentioned poets have their own merits, it was Amir Khusrau who played a central role in the development of Qawwali in the Indian subcontinent.

75. Option (2) is correct.

Resorcinol, also known as resorcin, is a phenolic compound with the chemical formula $C_6H_4(OH)_2$. It is classified as one of the three isomeric benzenediols, specifically the 1,3-isomer, often referred to as the meta-isomer. Resorcinol appears as colorless needle-like crystals when it crystallizes from benzene. It is highly soluble in water, alcohol, and ether, but it does not dissolve in chloroform and carbon disulfide.

76. Option (1) is correct.

The Theosophical Society was established in 1875 in New York by its founders, Helena Petrovna Blavatsky (H. P. Blavatsky) and Henry Steel Olcott (Colonel Olcott). Their influential ideas shaped the early development of the society. While Annie Besant and others played key roles later on, the founders were H. P. Blavatsky and Colonel Olcott. Charles W. Leadbeater and Emily Lutyens were connected to the society but not its founders. Madam Bhikaji Cama was a renowned

Indian independence activist but not part of the Theosophical Society's founding team.

77. Option (2) is correct.

Fundamental Rights in the Indian Constitution are primarily described in Articles 12 to 35. These articles lay down the provisions and protections of various fundamental rights that are granted to Indian citizens. Articles 5 to 11 deal with the citizenship of India, while Articles 36 to 51 relate to the Directive Principles of State Policy. Articles 52 to 62 pertain to the President of India and the executive powers. Therefore, the articles relevant to Fundamental Rights are primarily found in the range of Articles 12 to 35.

78. Option (4) is correct.

Plasmodium is an organism that belongs to the phylum Apicomplexa. This phylum includes a diverse group of parasitic protozoa that are responsible for causing diseases such as malaria. The other options, Sponge, Physalia, and Hydra, do not belong to the phylum Apicomplexa and are different organisms with distinct characteristics.

79. Option (3) is correct.

The Char Minar, located in Hyderabad, Telangana, was constructed in 1591 CE, not 1664 CE.

80. Option (4) is correct.

In 1932, Carl D. Anderson discovered the positron, the antimatter counterpart of the electron, while studying cosmic rays. This was a significant contribution to particle physics.

81. Option (3) is correct.

The Right against Exploitation within the Fundamental Rights of the Indian Constitution prohibits the employment of children below the age of 14 in hazardous occupations. This right is designed to safeguard children from exploitative labor practices and ensure their well-being. It is distinct from other rights like the Right to Equality, Right to Constitutional Remedies, and Right to Freedom, each serving unique purposes in the Constitution.

82. Option (2) is correct.

Iron-deficiency anemia (IDA) primarily manifests because of lack of iron in the body, which impairs the body's ability to produce hemoglobin and, in turn, affects the oxygen-carrying capacity of red blood cells. Common manifestations of IDA include general pallor (pale skin), paleness of the conjunctiva of the eyes, and a pale or whitish appearance of the soft palate. However, blindness is not a direct manifestation of IDA. While severe anemia can lead to various health complications, blindness is typically not one of them.

83. Option (2) is correct.

My Country My Life is the autobiography of Indian politician L.K. Advani, offering a glimpse into his political journey and key moments in Indian politics. The other options mentioned, including Wings of Fire: An Autobiography by A.P.J. Abdul Kalam, My Times: An Autobiography by Jyotiraditya Scindia, and In Pursuit of Justice: An Autobiography by Rajinder Sachar, are autobiographies of different notable figures in India.

84. Option (2) is correct.

India's industrialization journey began during the Second Five-Year Plan, which ran from 1956 to 1961. This plan played a crucial role in boosting industrial growth and self-sufficiency across various sectors. Its primary objective was to reduce reliance on imports and foster domestic industrial development.

85. Option (2) is correct.

The green revolution focused on the introduction and use of technology and High Yielding Variety (HYV) seeds for

improving the yield of crops. It also saw the increased use of fertilizers and pesticides etc. for a better output.

86. Option (3) is correct.

Ghanakanta Bora Borbayan was honored with the Padma Shri in 2013 by the Government of India for his exceptional contributions to the field of Sattriya Dance.

87. Option (2) is correct.

The masculine aspect of the Manipuri classical dance is known as Chholoms.

88. Option (1) is correct.

Article 315 of the Constitution of India deals with the establishment of Public Service Commissions for the Union and for the States. It empowers the President to establish a Public Service Commission for the Union and the Governor of each state to establish a Public Service Commission for the respective state. These commissions are responsible for conducting examinations and recruitment for civil services and various government posts, ensuring transparency and fairness in the selection process.

Article 316 deals with the appointment and term of office of members of Public Service Commissions.

Article 317 deals with the removal and suspension of members of Public Service Commissions.

Article 318 deals with the power of the President to make regulations with respect to the conditions of service of members and staff of the Public Service Commission.

89. Option (3) is correct.

Death duty, also called estate tax or inheritance tax, is typically a direct tax imposed when property is transferred after an individual's death.

Interest tax is a direct tax on interest income earned by individuals or businesses.

Goods and services tax (GST) is an indirect tax, imposed on the supply of goods and services. It is typically passed on to the final consumer through pricing.

Capital gains tax is a direct tax imposed on the profits made from selling assets like stocks, real estate, or other investments.

90. Option (1) is correct.

The ball colour in the sport of Ball Badminton should be Yellow in colour.

91. Option (2) is correct.

The bicameral legislature of the Indian Constitution consists of two houses.

The Rajya Sabha (Council of States): This represents the states and union territories of India. Members are not directly elected by the public but are elected by the members of the State Legislative Assemblies.

The Lok Sabha (House of the People): This represents the people of India. Members are directly elected by the citizens through general elections.

So, the correct option is 2. It is a legislative body with two houses.

92. Option (1) is correct.

Neeruswamy Pillai and Rajaratanam Pillai are renowned musicians known for their mastery of the Nadaswaram, a traditional South Indian wind instrument. The Nadaswaram, similar to the North Indian Shehnai, holds a significant role in various South Indian classical music and religious performances.

93. Option (1) is correct.

Living organisms have been on Earth for nearly 80% of Earth's history.

94. Option (2) is correct.

In the 2011 Census, Bihar had the lowest recorded literacy rate among the options given. The literacy rate is a statistical measure representing the percentage of individuals aged 7 and above who can read and write with comprehension. During the 2011 Census, Bihar exhibited one of the lowest literacy rates in India.

95. Option (2) is correct.

Article 177 of the Indian Constitution refers to the Rights of Ministers with respect to the State Legislature. It specifies that every Minister and the Advocate General of a State shall have the right to speak in, and otherwise to take part in the proceedings of, the Legislative Assembly of the State or, in the case of a State having a Legislative Council, both Houses, and to speak in, and otherwise to take part in, any committee of the Legislature of which he may be named a member, but shall not have a right to vote.

96. Option (4) is correct.

In Ball Badminton, players change ends when a side first scores 11 points in each game, not 18, 27, or 9.

97. Option (4) is correct.

In 1928, physicist Paul Dirac introduced the Dirac equation, a pivotal scientific formula that merges quantum mechanics and special relativity to portray how an electron behaves when traveling at speeds close to the speed of light. This equation holds immense importance in the realm of quantum physics, providing essential insights into the behavior of particles in the quantum world.

98. Option (3) is correct.

The term 'Dribble' is commonly linked to the sport of basketball. In basketball, dribbling entails the continuous bouncing of the ball while a player moves on the court. It serves as a fundamental skill that enables players to maneuver with the ball, avoid defenders, and create scoring opportunities.

99. Option (2) is correct.

Alauddin Khilji, a notable ruler of the Khilji dynasty in the Delhi Sultanate, began his career as the Amir-i-Tuzuk, which translates to the Master of Ceremonies or Master of Protocol. This position was one of great influence and responsibility in the royal court. Alauddin Khilji's appointment as Amir-i-Tuzuk demonstrated his competence and loyalty, which later paved the way for his ascension to the throne as Sultan of Delhi.

100. Option (4) is correct.

Muhammad Ali authored the book 'The Soul of a Butterfly: Reflections on Life's Journey.' This book offers a unique perspective on his life, experiences, and personal philosophy. It reflects his extraordinary journey as a celebrated boxer and global figure, sharing valuable wisdom and insights that extend beyond the world of boxing. In this book, Muhammad Ali reflects on topics such as personal growth, spirituality, and the core values that shaped his remarkable life.

101. Option (2) is correct.

Given numbers are 22, 66 and 11.

Let the fourth proportion of given numbers is x .

$$\text{So, } \frac{22}{66} = \frac{11}{x}$$

$$22x = 11 \times 66$$

$$x = \frac{11 \times 66}{22} = 33$$

102. Option (3) is correct.

Let the marked price of the article is Rs. x .

According to the question:

$$x \times \frac{(100-25)}{100} \times \frac{(100-28)}{100} = 10800$$

$$x \times \frac{75}{100} \times \frac{72}{100} = 10800$$

$$x = 10800 \times \frac{100}{75} \times \frac{100}{72}$$

$$x = 20000$$

So, the marked price of the article = Rs. 20000

103. Option (1) is correct.

Given that the marked price of the article = Rs. 15000

Let the selling price = Rs. x

According to the question:

$$x = 15000 \times \frac{100-5}{100} \times \frac{100-10}{100} \times \frac{100-20}{100}$$

$$x = 15000 \times \frac{95}{100} \times \frac{90}{100} \times \frac{80}{100}$$

$$x = 10260$$

So, the selling price = Rs. 10260

104. Option (3) is correct.

Given that the value of a washing machine depreciated from ₹40,960 to ₹21,970 in 3 years.

Let the rate of depreciation = $r\%$ per annum

According to the question:

$$21970 = 40970 \times \left(1 - \frac{r}{100}\right)^3$$

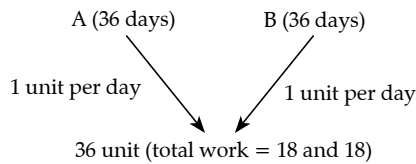
$$\Rightarrow \frac{21970}{40960} = \left(1 - \frac{r}{100}\right)^3$$

$$\Rightarrow \frac{13}{16} = 1 - \frac{r}{100}$$

$$\Rightarrow \frac{r}{100} = 1 - \frac{13}{16}$$

$$\Rightarrow r = \frac{3}{16} \times 100 = 18.75\%$$

105. Option (3) is correct.



So, A and B per day work = $1 + 1 = 2$ unit

So, work done on each day = $2 + 2 + 2 + 2 + 2 + 1 + 2 + 1 + 2 + 2 + 2 + 1 + 2 + 1 + 2 + 2 + 1 = 36$ units

So, the work will be completed at 21st July.

106. Option (3) is correct.

$$\text{Volume of a sphere which radius is 3 cm} = \frac{4}{3}\pi r^3 = \frac{4}{3}\pi 3^3$$

$$\begin{aligned} \text{Volume of a hemisphere which radius is } \frac{3}{2} \text{ cm} &= \frac{2}{3}\pi r^3 \\ &= \frac{2}{3}\pi \left(\frac{3}{2}\right)^3 \\ &= \frac{9}{4}\pi \text{ cm}^3 \end{aligned}$$

$$\text{So, the total number of hemispheres} = \frac{36\pi}{\frac{9}{4}\pi} = 16$$

107. Option (4) is correct.

$$\begin{aligned} \text{Volume of ice cubes which radius is 3 cm} &= \frac{4}{3}\pi r^3 = \frac{4}{3}\pi 3^3 \\ &= 26\pi \text{ cm}^3 \end{aligned}$$

$$\begin{aligned} \text{Volume of container which is increased by ice cubes} &= \pi r^2 h \\ &= \pi \times 9^2 \times 40 = 3240\pi \text{ cm}^3 \end{aligned}$$

$$\text{So, the required number of cubes} = \frac{3240\pi}{26\pi} = 90$$

108. Option (1) is correct.

Given that:

Slant height of cone = 29 cm

Height of cone = 20 cm

$$\text{So, radius of cone} = \sqrt{29^2 - 20^2} = \sqrt{841 - 400} = 21 \text{ cm}$$

$$\text{Total surface area of cone} = \pi l(r + l) = \frac{22}{7} \times 21(21 + 29) = 3300$$

$$\text{Volume of cone} = \frac{1}{3}\pi r^2 h = \frac{1}{3} \times \frac{22}{7} \times 21 \times 21 \times 20 = 9240$$

$$\text{So, the required ratio} = \frac{3300}{9240} = \frac{5}{14}$$



109. Option (1) is correct.

By the angle bisector theorem,

$$\frac{BD}{DC} = \frac{AB}{AC}$$

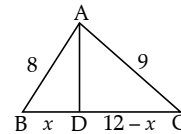
$$\Rightarrow \frac{x}{12-x} = \frac{8}{9}$$

$$\Rightarrow 9x = 96 - 8x$$

$$\Rightarrow 17x = 96$$

$$\Rightarrow x = \frac{96}{17}$$

$$\text{So, the required length} = \frac{96}{17} = 5\frac{11}{17} \text{ cm}$$



110. Option (4) is correct.

Given that: $\cot^2 \theta = 1 - e^2$

$$\Rightarrow \operatorname{cosec}^2 \theta - 1 = 1 - e^2$$

$$\Rightarrow \operatorname{cosec}^2 \theta = 2 - e^2$$

$$\Rightarrow \operatorname{cosec} \theta = (2 - e^2)^{1/2}$$

$$\text{So, } \operatorname{cosec} \theta + \cot^3 \theta \cdot \sec \theta = \operatorname{cosec} \theta + \cot^2 \theta \cdot \operatorname{cosec} \theta$$

$$= \operatorname{cosec} \theta (1 + \cot^2 \theta)$$

$$= (2 - e^2)^{1/2} (2 - e^2)$$

$$= (2 - e^2)^{3/2}$$

111. Option (2) is correct.

$$\text{Given that: } \frac{2 \sin A - \cos A}{\sin A + \cos A} = 1$$

$$\Rightarrow \frac{2 - \frac{\cos A}{\sin A}}{1 + \frac{\cos A}{\sin A}} = 1$$

$$\Rightarrow \frac{2 - \cot A}{1 + \cot A} = 1$$

$$\Rightarrow 2 - \cot A = 1 + \cot A$$

$$\Rightarrow \cot A = \frac{1}{2}$$

112. Option (3) is correct.

Let the total work = LCM (11, 20, 55) = 220 unit

$$\text{So, A's efficiency} = \frac{220}{11} = 20 \text{ unit per day}$$

$$\text{B's efficiency} = \frac{220}{20} = 11 \text{ unit per day}$$

$$C's \text{ efficiency} = \frac{220}{55} = 4 \text{ unit per day}$$

According to the question:

$$1^{st} \text{ day work} = 20 + 11 = 31 \text{ unit}$$

$$2^{nd} \text{ day work} = 20 + 4 = 24 \text{ unit}$$

So, total work done in two days = 55 unit

$$\text{So, the total time taken to finish the work} = \frac{220}{55} \times 2 = 8 \text{ days}$$

113. Option (2) is correct.

According to the question:

The average number of children per family

$$= \frac{4 \times 0 + 22 \times 1 + 15 \times 2 + 6 \times 3 + 4 \times 2}{4 + 22 + 15 + 6 + 2}$$

$$= \frac{0 + 22 + 30 + 18 + 8}{49} = \frac{78}{49} = 1.59$$

114. Option (4) is correct.

Given that the distance = 150 km

Let the speed of slow local = x kmph

And the speed of fast local = $(x + 10)$ kmph

$$\text{We have, time} = \frac{\text{distance}}{\text{speed}}$$

According to the question:

$$\Rightarrow \frac{150}{x} - \frac{150}{x+10} = \frac{45}{60}$$

$$\Rightarrow \frac{150(x+10-10)}{x(x+10)} = \frac{3}{4}$$

$$\Rightarrow 200 = x(x+10)$$

$$\Rightarrow x = 40$$

So, the speed of slow local = 40 kmph

115. Option (1) is correct.

Total number of students = 720

The ratio of boys to girls = 3 : 5

$$\text{So, number of boys} = 720 \times \frac{3}{8} = 270$$

And number of girls = $720 - 270 = 450$

According to the question:

$$\Rightarrow \frac{280+x}{450+18} = \frac{2}{3}$$

$$\Rightarrow 810 + 3x = 936$$

$$\Rightarrow 3x = 126$$

$$\Rightarrow x = 42$$

116. Option (1) is correct.

According to the given graph:

Expenditure in 2017 = Rs. 80000

Expenditure in 2018 = Rs. 100000

$$\text{So, the required percentage} = \frac{100000 - 80000}{80000} \times 100 = 25\%$$

117. Option (3) is correct.

The lowest number which is divisible by 15, 25, 40 and 75 = LCM (15, 25, 40, 75) = 600

Now, Largest 4 digits number is 9999.

When 9999 is divided by 600, the remainder will be 399.

So, the required number is = $9999 - 399 = 9600$

118. Option (2) is correct.

First six prime numbers = 2, 3, 5, 7, 11, 13

$$\text{Required average} = \frac{2+3+5+7+11+13}{6} = 6\frac{5}{6}$$

119. Option (2) is correct.

Let total income of Ayush = Rs. x

According to the question:

$(100\% - (25\% + 26\% + 23\% + 19\%))$ of $x = 26600$

$$\Rightarrow 7\% \text{ of } x = 26600$$

$$\Rightarrow x = 26600 \times \frac{100}{7} = 380000$$

$$\text{So, the required amount} = 38000 \times \frac{26+19}{100} = \text{Rs. } 171000$$

120. Option (4) is correct.

According to the given pi chart:

$$\begin{aligned} \text{The amount spent by family on housing} &= \frac{79.2}{360} \times 56800 \\ &= \text{Rs. } 12496 \end{aligned}$$

121. Option (3) is correct.

$$\text{The volume of big metallic sphere} = \frac{4}{3}\pi r^3 = \frac{4}{3}\pi \times 16^3 \text{ cm}^3$$

$$\text{The volume of small metallic sphere} = \frac{4}{3}\pi r^3 = \frac{4}{3}\pi \times 2^3 \text{ cm}^3$$

$$\text{So, the required number of cubes} = \frac{\left(\frac{4}{3}\pi \times 16^3\right)}{\frac{4}{3}\pi \times 2^3} = 512$$

122. Option (3) is correct.

Given expression: $b + 2a - [(3b + a) - (2a + b) + 2a] - a$

$$= b + 2a - [(3b + a) - b] - a$$

$$= b + 2a - [2b + a] - a$$

$$= b + 2a - 2b - a - a$$

$$= -b$$

123. Option (4) is correct.

Remaining amount after payment of Rs. 520 = $2500 - 520 =$ Rs. 1980

Total payable amount after 4 months

$$= 1980 + 1980 \times \left(\frac{25}{100} \times \frac{1}{3}\right) = 1980 \times \frac{13}{12}$$

$$\text{Rate of interest} = \frac{25}{100} \text{ yearly} = \frac{1}{4} \times \frac{1}{12} = \frac{1}{48} \text{ monthly}$$

Let Emi instalment = 48 units

So, $48 \rightarrow \text{I}^{st}$

$48 + 3 \rightarrow \text{II}^{nd}$

$48 + 2 \rightarrow \text{III}^{rd}$

$48 + 1 \rightarrow \text{IV}^{th}$

Total = 198 units

$$\text{According to question, } 198 \text{ units} = 1980 \times \frac{13}{12}$$

$$\therefore 1 \text{ unit} = \frac{130}{12}$$

$$\therefore \text{Emi instalment} = \frac{130}{12} \times 48 = 520$$

124. Option (2) is correct.

Given that:

The race track length = 1200m

$$\text{Speed of Rakesh} = \frac{1200}{40} = 30 \text{ m/s}$$

So, the distance travelled by Rakesh in 36 s = $30 \times 36 = 1080 \text{ m}$

Hence, the required distance = $1200 - 1080 = 120 \text{ m}$

125. Option (3) is correct.

According to the question:

Total salary of 50 faculties = $50000 \times 30 = 1500000$

Total salary of 35 faculties = $35 \times 37500 = 1312500$

$$\text{So, the average salary of 15 faculties} = \frac{1500000 - 1312500}{15} = 12500$$

126. Option (1) is correct.

Given that: $\sin \theta + \cos \theta = \sqrt{2} \cos \theta$

\Rightarrow divide both sides by $\sin \theta$.

$$1 + \frac{\cos \theta}{\sin \theta} = \sqrt{2} \frac{\cos \theta}{\sin \theta}$$

$$\Rightarrow 1 + \cot \theta = \sqrt{2} \cot \theta$$

$$\Rightarrow \cot \theta = -\frac{1}{(1-\sqrt{2})} = \frac{1}{(\sqrt{2}-1)}$$

$$\text{So, the value of } \frac{\sin \theta - \cos \theta}{\sin \theta} = 1 - \cot \theta$$

$$= 1 - \frac{1}{\sqrt{2}-1} = \frac{\sqrt{2}-1-1}{(\sqrt{2}-1)}$$

$$= \frac{\sqrt{2}-2(\sqrt{2}+1)}{(\sqrt{2}-1)(\sqrt{2}+1)} = \frac{2-2\sqrt{2}+\sqrt{2}-2}{2-1} = -\sqrt{2}$$

127. Option (4) is correct.

$$\text{Cost price of 1st toy} = 1500 \times \frac{100}{125} = 1200$$

$$\text{Cost price of 2nd toy} = 2800 \times \frac{100}{50} = 5600$$

$$\text{Cost price of 3rd toy} = 3500 \times \frac{100}{125} = 2800$$

$$\text{So, total cost price of all toys} = 1200 + 5600 + 2800 = 9600$$

$$\text{And total selling price of all toys} = 7800$$

$$\text{So, the loss percentage} = \frac{9600-7800}{9600} \times 100 = 18.75\%$$

128. Option (4) is correct.

$$\text{Given that the total income} = \text{Rs. } 100000$$

$$\text{So, required difference} = \frac{15-5}{100} \times 100000 = 10000$$

129. Option (1) is correct.

$$\begin{aligned} &(x-2y)(y-3x) + (x+y)(x-y) + (x-3y)(2x+y) \\ &= xy - 2y^2 - 3x^2 + 6xy + x^2 - y^2 + 2x^2 - 6xy + xy - 3y^2 \\ &= 2xy - 6y^2 = 2y(x-3y) \end{aligned}$$

130. Option (1) is correct.

The least number which is divisible by 9, 12, 15, 25 and 27 = LCM (9, 12, 15, 25, 27) = 1350

Least number of five digits = 10000

The quotient when 10000 is divided by 1350 is 7 and the remainder is 550.

$$\text{So, the least number of five digits} = 1350 \times 8 = 10800$$

131. Option (3) is correct.

Let the HCF of both numbers = x

Then the LCM = $5x$

Using, LCM \times HCF = Multiplication of both numbers

$$5x \times x = 20480$$

$$\Rightarrow x = 64$$

So, the HCF of both numbers = 64

$$\text{Then the LCM} = 5 \times 64 = 320$$

132. Option (3) is correct.

We have

$$125 = 5 \times 5 \times 5$$

$$250 = 2 \times 5 \times 5 \times 5$$

$$750 = 2 \times 3 \times 5 \times 5 \times 5$$

$$\text{So, HCF } (125, 250, 750) = 5 \times 5 \times 5 = 125$$

133. Option (3) is correct.

We have,

$$8 = 2 \times 2 \times 2$$

$$12 = 2 \times 2 \times 3$$

$$18 = 2 \times 3 \times 3$$

$$\text{So, LCM } (8, 12, 18) = 2 \times 2 \times 2 \times 3 \times 3 = 72$$

134. Option (2) is correct.

$$\text{Total employees in organization P and R in 2019} = 69 + 63 = 132$$

$$\text{Total employees in organizations Q and R in 2020} = 74 + 90 = 164$$

$$\text{So, the required ratio} = \frac{132}{164} = \frac{33}{41}$$

135. Option (1) is correct.

Given that the expenditure = Rs. 5400

Ratio of income and expenditure = 7 : 3

According to the question:

$$3x = 5400$$

$$x = 1800$$

$$\text{So, the total income} = 7 \times 1800 = \text{Rs. } 12600$$

136. Option (4) is correct.

Let Ravi's income = R

And Suresh's income = S

According to the question:

$$\Rightarrow \frac{30}{100} \times R = \frac{40}{100} \times S$$

$$\Rightarrow 3R = 4S$$

$$\Rightarrow R = \frac{4}{3} \times S$$

$$\text{Now } \frac{50}{100} \times R = \frac{50}{100} \times \frac{4}{3} \times S$$

$$= \frac{2}{3} \times S \text{ or } \left(\frac{2}{3} \times 100 \right) \% \text{ of } S = 66\frac{2}{3} \% \text{ of } S$$

137. Option (1) is correct.

Given that Arun can complete $\frac{2}{3}$ rd of a work in = 12 days

$$\text{So, Arun can complete whole work in} = 12 \times \frac{3}{2} = 18 \text{ days}$$

$$\text{Hence, Arun can complete } \frac{1}{6} \text{ th of the work in} = 18 \times \frac{1}{6} = 3 \text{ days}$$

138. Option (2) is correct.

The chord of circle = the radius of circle.

OA and OB are the two radii of the circle.

Since, AB = OA = OB

So, $\angle OAB$ is an equilateral triangle.

Which implies $\angle AOC = 60^\circ$

And, $\angle ACB = \frac{1}{2} \angle AOB$

So, $\angle ACB = \frac{1}{2} \times 60 = 30^\circ$

Now, ACBD is a cyclic quadrilateral,

$\angle ADB + \angle ACB = 180^\circ$ (Since they are the opposite angles of a cyclic quadrilateral)

$$\text{So, } \angle ADB = 180 - 30 = 150^\circ$$

Hence, the difference between the angle subtended by the chord at the minor arc and major arc of the circle = $150^\circ - 30^\circ = 120^\circ$

139. Option (2) is correct.

In $\triangle AOB$, using pythagoras,

$$OB^2 = AB^2 - DA^2 = 15^2 - 12^2$$

$$OB^2 = 225 - 144$$

$$OB = 9 \text{ cm}$$

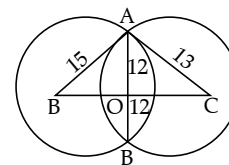
In $\triangle AOC$, using pythagoras,

$$OC^2 = AC^2 - OA^2 = 13^2 - 12^2$$

$$OC^2 = 169 - 144$$

$$OC = 5 \text{ cm}$$

$$\therefore \text{Required distance} = 9 + 5 = 14 \text{ cm}$$



140. Option (4) is correct.

According to the given table, city B had the largest number of students among the given cities.

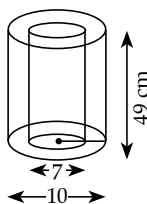
141. Option (4) is correct.

According to the given graph,

$$\begin{aligned} \text{Average increment of Kamal in three months} &= \frac{65 + 55 + 75}{3} \\ &= 65 \end{aligned}$$

142. Option (4) is correct.

Using volume of hollow cylinder,
 $= \pi(r_1^2 - r_2^2)h$
 $= \frac{22}{7}(10^2 - 7^2) \times 49$
 $= 22 \times 7 \times 51 = 7854 \text{ cm}^3.$

**143. Option (1) is correct.**

$$2 \tan^2 45^\circ + \cos^2 30^\circ - \sin^2 60^\circ$$

$$= 2 \times (1)^2 + \left(\frac{\sqrt{3}}{2}\right)^2 - \left(\frac{\sqrt{3}}{2}\right)^2$$

$$= 2 + \frac{3}{4} - \frac{3}{4} = 2$$

144. Option (4) is correct.

Cost price of sugar = ₹ 36/kg

$$\text{So, the price of 800 gm sugar} = \frac{36}{1000} \times 800 = ₹ 38.8$$

According to the question, selling price of 800 gm sugar = ₹ 40

$$\text{So, the profit percentage} = \frac{40 - 38.8}{38.8} \times 100 = 3.09\%$$

145. Option (1) is correct.

Given that $QS = QP = x - y$

$$\therefore SR = QR - QS$$

$$\Rightarrow x - (x - y) = y$$

In ΔPQR , using pythagoras,

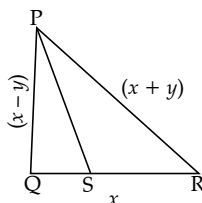
$$(x + y)^2 = (x - y)^2 + x^2$$

$$\Rightarrow x^2 + y^2 + 2xy = x^2 + y^2 - 2xy + x^2$$

$$\Rightarrow x = 4y$$

$$\text{So, required ratio} = \frac{QS}{SR} = \frac{x - y}{y} = \frac{4y - y}{y}$$

$$= \frac{3}{1} = 3:1$$

**146. Option (4) is correct.**

Total number of scooters sold by store A and B together in jan = 212 + 168 = 380

Total number of scooters sold by store D and E together in mar = 255 + 245 = 500

$$\text{Required ratio} = \frac{380}{500} = \frac{19}{25}$$

147. Option (3) is correct.

Let the total distance covered be 100 km.

He covers 25% distance at the speed of 25 km/h.

$$\text{i.e. } 100 \times \frac{25}{100} = 25 \text{ km at the speed of 25 km/h.}$$

$$\therefore \text{Time} = \frac{25}{25} = 1 \text{ h.}$$

He covers 50% distance at the speed of 50 km/h.

$$\text{i.e. } 100 \times \frac{50}{100} = 50 \text{ km at the speed of 50 km/h.}$$

$$\therefore \text{Time} = \frac{50}{50} = 1 \text{ h.}$$

He covers remaining distance at the speed of 12.5 km/h.

i.e. $100 - 75 \text{ km} = 25 \text{ km.}$ at the speed of 12 km/h.

$$\therefore \text{Time} = \frac{25}{12.5} = 2 \text{ h.}$$

So,

$$\text{Average speed} = \frac{\text{Total distance}}{\text{Total time taken}}$$

$$= \frac{100}{(1+1+2)} = \frac{100}{4} = 25 \text{ km/h.}$$

148. Option (4) is correct.

Let the numbers are x and y .

According to the question,

$$x + y = 60 \quad (1)$$

As we know, $\text{LCM} \times \text{HCF} = \text{product of number}$

$$\Rightarrow x \cdot y = 5 \times 60 = 300 \quad (2)$$

By eq. (1)/(2),

$$\Rightarrow \frac{1}{x} + \frac{1}{y} = \frac{60}{300} = \frac{1}{5}$$

149. Option (4) is correct.

According to the given graph,

$$\text{Required difference} = (45 - 40) \times 100 = 500$$

150. Option (2) is correct.

Let the numbers are $2x$ and $7x$.

According to the question,

$$X = 9$$

$$\text{So, the highest number} = 7 \times 9 = 63$$

151. Option (4) is correct.

The concert was filled with fully attentive teenage listeners.

The word 'rapt' means 'showing complete delight or interest.'

Here, the teenagers were extremely interested or fascinated by the performances in the concert.

152. Option (2) is correct.

The word 'decline' means to 'slope downward'. Therefore, the antonym will be 'ascend', which means 'go up or climb.' 'Demonstrate' means to 'show'; while 'traverse' implies navigate.

153. Option (4) is correct.

It was a quiet afternoon, so Dan decided to take a nap. Here, 'a quite' will be replaced by 'a quiet'. The word 'quite' is an adverb used to refer to the degree, that means "totally" or "completely", while the word 'quiet' is most commonly used as an adjective to describe things that aren't making noise.

154. Option (2) is correct.

This is not an exhaustive list of words. We use 'an' before nouns that begin with a vowel sound to indicate any non-specific noun.

155. Option (3) is correct.

The idiom 'a left handed compliment' implies an insult in the guise of an expression of praise or an ambiguous compliment. Example: My opponent remarked that I made a good player, and only need to work on my ability to hold the racquet. This was indeed a left handed compliment.

156. Option (2) is correct.

'Redemption' means 'the action of saving or being saved from sin, error, or evil.' Therefore, the antonym is blasphemy, meaning 'great disrespect shown to God or to something holy'. Salvation refers to 'the act of saving or protecting from harm'. Corrugation is the act of shaping into parallel ridges and grooves.

157. Option (1) is correct.

Have they been working in that particular shop for several years? Here, 'work' will be replaced by 'working' because the sentence is suggestive of present continuous tense, which takes -ing after the main verb.

158. Option (4) is correct.

He had a round face made jovial by bright, almost boyish eyes and eyebrows ridiculously small for a man his size. The spelling 'ridiculously' is incorrect, and the correct one is 'ridiculously'.

159. Option (2) is correct.

Unless you prepare well you will not perform well. Here, 'do will not prepare' will be replaced by 'prepare'. In this conditional sentence, 'unless' means 'if not', so there is no need of putting another negative. The sentence must take the format: simple present tense + future tense.

160. Option (3) is correct.

'Bite the bullet' means "to do something unpleasant or painful because it is necessary even though you would like to avoid". Example: Given the miserable condition of the company, I had to bite the bullet by retaining my job at a low pay. The correct answer is : Decide to do the inevitable which you were avoiding.

161. Option (2) is correct.

Resolute means 'firm/steadfast'. Thus, the antonym is 'wavering' (uncertain).

162. Option (2) is correct.

Roger went to the United Kingdom with his wife to celebrate Christmas. Here, 'to an United Kingdom' will be replaced by 'to the United Kingdom'. The definite article 'the' is used when referring to countries with names that incorporate words like kingdom, state, or republic.

163. Option (2) is correct.

Why is everyone so dressed up? What's the occasion? Is it a wedding? The incorrectly spelt word is 'occaseon'. It must be 'occasion'.

164. Option (3) is correct.

To restrain or compel a person to do something by force is 'coerce'. 'Convoy' means 'a group of ships or vehicles travelling together'. The word 'consensus' means 'a general agreement'.

165. Option (4) is correct.

Health insurance is important today since anyone can face a medical emergency without warning. Here, 'are important' is incorrect and hence will be substituted by 'is important'. This is because the subject is singular (health), so the associated verb will also be singular (is). Moreover, the tense used in the second clause of the sentence is present, so the first part will also have the same tense.

166. Option (2) is correct.

'Spill the beans' means 'to let secret information become known'. Example: My younger brother spilled the beans before my parents about their surprise anniversary party.

167. Option (4) is correct.

People say diverse things at different times. The words 'whimsical' and 'fanciful' means the same. While 'delectable' means delicious. But 'diverse' implies 'different'.

168. Option (1) is correct.

'Together' means 'united', so the antonym is 'apart'.

169. Option (4) is correct.

'Magnificent' means 'extremely beautiful'. 'Impressive' is a synonym; while 'modest' is an antonym, meaning average.

170. Option (4) is correct.

I have all the technical and communication skills necessary to crack any interview; it will be a piece of cake for me. This idiom means 'something that is very easy to do'. 'A storm in a tea cup' is a situation in which people are very angry or upset about something that is not important. While, 'A chip on my shoulder' means to have an angry or unpleasant attitude or way of behaving caused by a belief that one has been treated; 'a hard nut to crack' means 'a difficult problem or an opponent that is hard to beat.'

171. Option (3) is correct.

He seems to be sitting on the fence about whether to move to another city for better prospects. The idiom 'sitting on the fence' means 'undecided'.

172. Option (1) is correct.

I have a dog and a cow. The dog is black but the cow is black and white. Here, 'the dog is black' will replace 'a dog is black' because the indefinite article 'a' is used for something non-specific, but the definite article is used for something specific and here, the dog and the cow have been introduced earlier.

173. Option (3) is correct.

Improved rail transport is crucial for business. The word 'essential' means vital/ crucial.

174. Option (3) is correct.

'Desolate' means 'make (a place) appear bleakly empty.' The synonym will also be a negative word, hence 'depressive' (gloomy) is correct.

175. Option (2) is correct.

An act of exchanging information is also called communication.

176. Option (1) is correct.

They were more often obnoxious than not, impatient with me because my services had been essentially imposed upon them. The word 'abnoxious' is incorrectly spelled, it is 'obnoxious' (intolerable).

177. Option (3) is correct.

The word 'adhere' means 'to hold fast or stick'. Therefore, the antonym is 'flout', meaning 'openly disregard'.

178. Option (2) is correct.

In the sentence 'She has a penchant for art and craft', 'penchant' means 'liking'. So, the antonym is 'hatred'.

179. Option (4) is correct.

The team leader tried to put a brave face on in the situation, even though they were facing tough competition and limited resources. The phrase 'to remain positive or optimistic' will be replaced by 'to put a brave face on' because 'try not to show how disappointed or upset you are about the situation.'

180. Option (3) is correct.

'Superb' implies 'excellent'. While 'infallible' means reliable; 'incorrigible' means 'impossible to change or improve'. So, the antonym is 'inferior'.

181. Option (1) is correct.

In the sentence, 'He was carried off his feet when he was declared to have won the prize'. Here, 'carried off his feet' means 'to flourish in doing or attaining something difficult'. So, 'was wild with excitement' is the correct answer.

182. Option (4) is correct.

It took seven years for Harish to shake off his migraine. The phrase 'shake off' means 'getting rid of what is unpleasant, undesirable, or unwanted.'

183. Option (3) is correct.

The new routine will suit you to a T. The idiom 'to a T' implies 'exactly; to perfection.'

184. Option (4) is correct.

The idiom 'spill the beans' means 'to tell people secret information'. Example: The elder brother warned his sibling from spilling the beans to their parents about his wrongdoings.

185. Option (3) is correct.

'The critical point of the issue' means 'a crisis situation in time when a critical decision must be made.' So, 'the crux of the matter' is the correct answer.

186. Option (4) is correct.

I like all games except cricket. The word 'instead of' means 'except'.

187. Option (2) is correct.

'Requiring exceptional skill or caution in performance or handling' can be referred as 'tricky'. While 'sustainable' means 'able to continue over a period of time'. Whereas 'abstract' means 'existing only in the mind'.

188. Option (1) is correct.

He could pass his exams if he studied harder. Here, 'be pass' will be replaced by 'pass'. The use of auxiliary verb 'be' is incorrect. The verb 'pass' does not require another auxiliary other than 'could'. Hence part (2) has the error.

189. Option (2) is correct.

They have begun to study in separate rooms. Here, 'separate' is incorrectly spelt. Hence it will be written as 'separate.'

190. Option (4) is correct.

One has to understand the rudimentary fact that intelligence and intellect are at two opposite poles. Here, 'rudimentary' is incorrectly spelt, it will be spelt as 'rudimentary' (elementary).

191. Option (2) is correct.

Rabindranath Tagore founded a small school at Santiniketan in 1901 and Kala Bhavan, an art school, in 1919 which later became a part of the Visvabharati University founded in 1921. The word 'later' is appropriate for the blank referring to future. This implies that initially Kala Bhavan, an art school, later became a part of the Visvabharati University.

192. Option (4) is correct.

Located in an idyllic village some distance from the city of Calcutta, Kala Bhavan presented an alternative methodology of art training. The most appropriate clue is that the blank is preceded by the article 'an', which is used only before words with vowel sound as in 'idyllic', which means peaceful.

193. Option (2) is correct.

Kala Bhavan presented an alternative methodology of art training, in which studio based practice was rejected in favour of learning through observation and living as a part of nature. 'Rejected' means 'forbidden' and thus, it is appropriate for the blank.

194. Option (1) is correct.

The natural surroundings with the vistas of bare red earth dotted with trees. The word 'vistas' means 'a pleasing view.' The view, here, is that of bare red earth dotted with trees, the colours of the changing seasons, the animals and birds.

195. Option (3) is correct.

The colours of the changing seasons, the animals and birds provided inspiration to students. Other options do not justify the context.

196. Option (3) is correct.

In the sentence, 'They are also home to great cultural diversity among people adapted to the challenges of mountain life', here, 'diversity' connotes 'the state of being diverse; variety.' Thus, the antonym is 'uniformity'; (consistency).

197. Option (1) is correct.

In the sentence, 'Fast-rising temperatures are forcing mountain species, ecosystems and the people that depend on them to adapt or migrate', 'migrate' is 'move from one part of something to another.' The need to move from one part of something to another arises owing to fast-rising temperatures. Thus, the antonym is 'stay'.

198. Option (4) is correct.

A humanistic tone of the passage represents the author's sentiment or attitude towards the subject. The author speaks of the significance of mountains and the adversities that they face and the need for preserving them- 'Mountain regions are particularly sensitive to degradation', 'Fast-rising temperatures are forcing mountain species, ecosystems and the people that depend on them to adapt or migrate. Thus, a humanistic approach is adopted by the author. There is no indication of a biased or laudatory (admiring) or emotional tone.

199. Option (4) is correct.

The passage starts with the significance of mountains in the life of humans and the preservation of biodiversity. It moves on to the causes behind its degradation- human pressures and climate change, which results in mountain species, ecosystems and the people that depend on them to adapt or migrate. Therefore, the structure of cause-effect can be established.

200. Option (2) is correct.

The passage is about the significance of mountains in the life of humans and the preservation of biodiversity and the impact of human pressures and climate change on them and the consequences. Therefore, 'Mountain ecosystem' most accurately states the central idea of the passage. ●●●

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SUB-INSPECTOR IN DELHI POLICE AND
CENTRAL ARMED POLICE FORCES EXAMINATION (PAPER-I)**



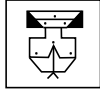
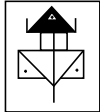

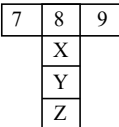
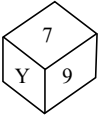
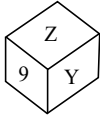
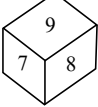
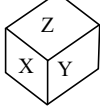
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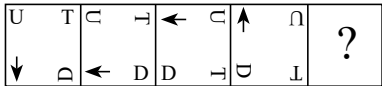
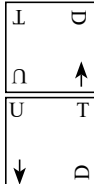
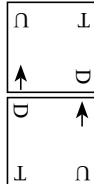


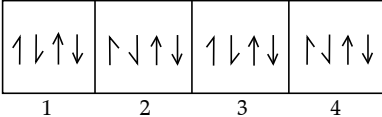




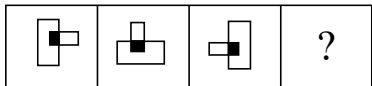




(4th October 2023: Shift-2)

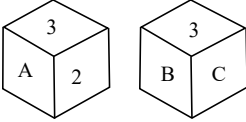
Time Allotted- 2 hours

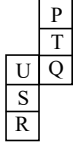
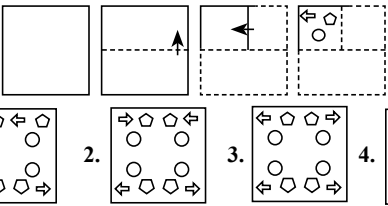

Max marks- 200

General Intelligence & Reasoning

- Select the option figure in which the given figure is embedded as its part (rotation is NOT allowed).

 - 
 - 
 - 
 - 
- If the given series sheet is folded to form a cube, which of the following figures is possible?

 - 
 - 
 - 
 - 
- Which letter-cluster will replace the question mark (?) to complete the given series?
 AXFN, GCJQ, MHNT, ?, YRVZ
 1. SWMR 2. QRLV 3. RLQV 4. SMRW
- 'F \$ G' means 'F is the mother of G'.
 'F # G' means 'F is the father of G'.
 'F @ G' means 'F is the husband of G'.
 'F % G' means 'F is the daughter of G'.
 If J @ C \$ B # R, then how is J related to R?
 1. Mother's brother
 2. Father
 3. Father's sister
 4. Father's father
- In a certain code language, 'SUGAR' is coded as 81 and 'FILL' is coded as 51. How will 'CREAM' be coded in that language?
 1. 52 2. 60 3. 57 4. 55
- Select the set in which the numbers are related in the same way as are the numbers of the following sets.
 (Note: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13- Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.)
 (7, 2, 70)
 (6, 4, 120)
 1. (3, 8, 120) 2. (13, 4, 208) 3. (5, 9, 270) 4. (11, 6, 143)

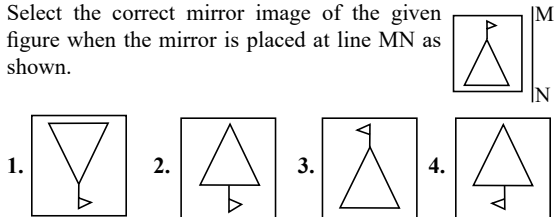
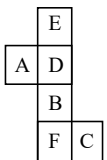
- Select the option that is related to the third term in the same way as the second term is related to the first term and the sixth term is related to the fifth term.
 16 : 106 :: 11 : ? :: 10 : 22
 1. 36 2. 42 3. 40 4. 31
- Which figure from the given options would replace the question mark (?) if the following figure series were to be continued?

 - 
 - 
 - 
 - 
- Which letter-cluster will replace the question mark (?) to complete the given series?
 PJVG, VBZB, BTDW, HLHR, ?
 1. NDLN 2. MDLN 3. MDLM 4. NDLM
- Which of the given figures when placed in the 5th position would continue the series that is established by the first four figures?

 - 
 - 
 - 
 - 
- Select the figure that will come next in the following figure series.

 - 
 - 
 - 
 - 
- Select the correct option that indicates the arrangement of the given words in the order in which they appear in an English dictionary.
 1. Doctor 2. Doctorate 3. Docile
 4. Documentary 5. Dock 6. Doctrine

1. 3, 5, 1, 2, 6, 4
2. 3, 5, 1, 6, 2, 4
3. 3, 5, 2, 1, 6, 4
4. 3, 4, 5, 1, 2, 6
13. Six characters A, B, C, 1, 2 and 3 are written on different faces of a dice. Two positions of this dice are shown in the figure. Find the character on the face opposite to A.
- 
1. C 2. 2 3. B 4. 1
14. Which of the following numbers will replace the question mark (?) in the given series?
- $$\frac{1}{121}, \frac{1}{11}, 1, ?, 121$$
1. 11 2. 12 3. 21 4. 1
15. Two statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.
- Statements:**
Some movies are dramas.
Some dramas are fiction.
- Conclusions:**
I. Some movies are fiction.
II. All fiction are movies.
1. Only conclusion I follows
2. Only conclusion II follows
3. Neither conclusion I nor II follows
4. Both conclusions I and II follow
16. If A denotes '+', B denotes '×', C denotes '−', and D denotes '÷', then what will be the value of the following equation?
22 B 7 C 288 D 12 A 27 = ?
1. 160 2. 103 3. 130 4. 157
17. Select the option that is related to the fourth term in the same way as the first term is related to the second term and the fifth term is related to the sixth term.
12 : 64 :: ? : 116 :: 32 : 144
1. 25 2. 46 3. 35 4. 14
18. If A denotes '+', B denotes '×', C denotes '−', and D denotes '÷', then what will be the value of the following equation?
21 B 14 C 154 D 14 A 42 = ?
1. 357 2. 325 3. 342 4. 352
19. If A denotes '+', B denotes '×', C denotes '−', and D denotes '÷', then what will come in place of '?' in the following equation?
56 D 8 B 7 = ? B 7
1. 9 2. 7 3. 8 4. 12
20. Aunt Gloria walked out of her house and walked 65 m towards the east. She took a left turn and walked 28 m. Again, she took a left turn and walked 110 m to reach a public library. How far (shortest distance) and in which direction is the library from Aunt Gloria's house?
1. 48 m, North-East 2. 48 m, North-West
3. 53 m, North-East 4. 53 m, North-West
21. Select the set in which the numbers are related in the same way as are the numbers of the following set.
(NOTE : Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding / subtracting/ multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is NOT allowed)
(9, 1, 19)
(5, 2, 14)
1. (3,5,56) 2. (3,2,10) 3. (2,5,12) 4. (4,7,37)

22. A cube is made by folding the given sheet. In the cube so formed, which pair of letters will be on the opposite faces?
- 
1. T and S 2. R and P
3. P and U 4. U and T
23. A @ B means 'A is the husband of B'
A & B means 'A is the mother of B'
A # B means 'A is the daughter of B'
If Z # L @ P & K @ J # X, then how is K related to Z?
1. Brother 2. Sister
3. Mother 4. Brother's wife
24. In a certain code language, 'ALIVE' is coded as 64 and 'HALL' is coded as 45. How will 'MOVIE' be coded in that language?
1. 71 2. 80 3. 79 4. 58
25. Six students Prateek, Sameer, Kabir, Ziya, Joseph, Kiran are sitting around a circular table facing the centre (not necessarily in the same order). Prateek is an immediate neighbour of both Sameer and Kabir. Ziya is sitting second to the right of Sameer. Kiran is sitting third to the left of Kabir. Joseph is an immediate neighbour of both Ziya and Kabir. Who is an immediate neighbour of Ziya?
1. Prateek 2. Kabir 3. Sameer 4. Kiran
26. If A denotes '+', B denotes '×', C denotes '−', and D denotes '÷', then what will be the value of the following equation?
88 A 94 C 35 D 8 B 8 = ?
1. 148 2. 189 3. 169 4. 135
27. The sequence of folding a piece of paper and the manner in which the folded paper is cut is shown in the following figures. How would this paper look when unfolded?
- 
28. Select the option that represents the letters which, when sequentially placed from left to right in the blanks below, will complete the letter series.
F _ _ Y _ _ K B _ O F _ B Y _
1. O F K B O Y K 2. B Y O K F O K
3. K B O F Y K O 4. Y O K B F O K
29. Select the option that is related to the fifth letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster and the fourth letter-cluster is related to the third letter-cluster.
INDIA : FKAFX :: ESTONIA : BPQLKFX :: MALAYSIA : ?
1. JPFXXIXV 2. JXVPFXXI
3. JXIXFXVP 4. JXIXVPFX
30. In a certain code language, 'PAINT' is written as 'ODYTN' and 'BRUSH' is written as 'CMMOZ'. How will 'HOUSE' be written in that language?
1. WDNOS 2. WPMOC 3. PHYWS 4. PBOMS
31. Select the option that represents the correct order of the given words as they would appear in an English dictionary?
1. Wrist 2. Wrangle 3. Workable
4. Wrongful 5. Woodland
1. 3, 5, 2, 1, 4 2. 3, 2, 5, 1, 4 3. 5, 2, 3, 1, 4 4. 5, 3, 2, 1, 4
32. Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.
- 

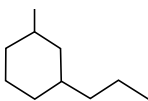
1. 8 & K T K 8 8 2. 8 @ K K 8 8 B B E Y T K 8
3. 8 @ K K 8 8 4. 8 & K K 8 8 B B E Y T K 8
33. Two statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.
Statements:
Some apples are oranges.
All oranges are fruits.
Conclusions:
I. All apples are fruits.
II. Some fruits are oranges.
1. Neither Conclusion I nor II follows.
2. Only Conclusion II follows.
3. Both Conclusions I and II follow.
4. Only Conclusion I follows
34. Manohar cycles X km towards west and then turns right and cycles Y km to reach his office. Now, the shortest distance between the starting point and his office is 13 km. What can be the value of X and Y, respectively, (in km)?
1. 12 and 5 2. 8 and 5 3. 11 and 6 4. 6 and 7
35. In a certain code language, 'EARS' is coded as '4268' and 'NICE' is coded as '9723'. What is the code for 'E' in the given code language?
1. 3 2. 2 3. 9 4. 4
36. Six people are sitting around a circular table facing the centre. P sits second to the left of Q. S is an immediate neighbour of both Q and U. T sits second to the left of R. Who is the immediate neighbour of both P and U?
1. T 2. S 3. Q 4. R
37. Based on the position in the English alphabetical order, three of the following letter-clusters are alike in some manner and one is different. Select the odd letter-cluster.
1. SWYX 2. PTVU 3. RVXW 4. LOQP
38. Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the odd letter-cluster.
1. GCKD 2. UQYR 3. XOTP 4. NJRK
39. Two statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.
Statements:
Some rivers are oceans.
All oceans are beaches.
Conclusions:
I. Some rivers are beaches.
II. All oceans are rivers.
1. Only conclusion II follows
2. Both conclusions I and II follow
3. Neither conclusion I nor II follows
4. Only conclusion I follows
40. If '+' means '×', '-' means '÷', '×' means '+', and '÷' means '-', then what will be the value of the following expression?
 $42 \times 168 - 8 \div 4 + 3 = ?$
1. 62 2. 45 3. 56 4. 51
41. Select the option that is related to the third word in the same way as the second word is related to the first word.
(The words must be considered as meaningful words and must not be related to each other based on the number of letters/ number of consonants/vowels in the word.)

Artist : Painting :: Cobbler : ?

1. Stitching clothes 2. Fixing shoes
3. Wooden repair work 4. Fixes electricity
42. Which two mathematical signs should be interchanged to make the given equation correct?
 $15 \times 3 \div 15 - (45 \times 3) - 10 + (13 \div 2) = 76$
1. ÷ and × 2. × and + 3. × and - 4. ÷ and +
43. If '+' means '-', '-' means '×', '×' means '÷', '÷' means '+', then what will come in place of the question mark (?) in the following equation?
 $23 - 5 \div 240 \times 8 + 14 = ?$
1. 145 2. 119 3. 131 4. 124
44. Select the correct mirror image of the given figure when the mirror is placed at line MN as shown.
- 
45. Two statements are given followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.
Statements:
All teas are juices.
All juices are cocktails.
Conclusions:
I. All teas are cocktails.
II. All cocktails are definitely juices.
1. Both conclusions I and II follow
2. Only conclusion II follows
3. Only conclusion I follows
4. Neither conclusion I nor II follows
46. In a certain code language, 'ACTOR' is coded as ROYCA and 'NURSE' is coded as ESWUN. How will 'JUDGE' be coded in the same language?
1. EGJUI 2. GEIUIJ 3. EGUIJ 4. EGIUIJ
47. Which of the following numbers will replace the question mark (?) in the given series?
76, 99, 135, 185, 250, ?
1. 330 2. 331 3. 328 4. 315
48. A cube is made by folding the given sheet. In the cube so formed, which letter will be on the face opposite to the face having 'F'?
- 
1. D 2. E 3. B 4. A
49. Which of the following numbers will replace the question mark (?) in the given series?
4, 11, 19, 31, 52, 89, ?
1. 151 2. 105 3. 150 4. 115
50. Which of the following numbers will replace the question mark (?) in the given series?
134, 129, 122, ?, 102, 89
1. 117 2. 113 3. 111 4. 115

General Knowledge and General Awareness

51. Which of the following Articles of the Indian Constitution empowers the Parliament to restrict or abrogate the fundamental rights of the members of the armed forces, paramilitary forces, police forces, intelligence agencies and analogous forces?

1. Article 35
3. Article 33
2. Article 31
4. Article 37
52. Mohenjodaro site of Harappan civilisation is situated on the bank of which river?
1. Jhelum river
3. Gharghara river
2. Indus river
4. Beas river
53. The Wadali Brothers are _____ singers.
1. Pandavani 2. Lavani 3. Sufi 4. Bhatiali
54. Rongker festival is celebrated by which of the following tribes?
1. Karbi 2. Gond 3. Bhil 4. Ao
55. Who among the following Mauryan kings turned to Buddhism and its tenet of nonviolence after the Kalinga war?
1. Chandragupta Maurya
3. Ashoka
2. Bindusara
4. Dasharatha
56. What is the name of the large supercontinent that existed 200 million years ago when all the continents were together?
1. Asia 2. India 3. Pangea 4. America
57. Who explained the structure of protein?
1. RF Rose
3. Johnson and Cristae
2. Emil Fischer
4. Pauling and Corey
58. According to Census of India 2011, identify the third largest spoken language in India.
1. Tamil 2. Marathi 3. Bengali 4. Hindi
59. Which of the following taxes is proportional in nature?
1. Capital Gains Tax
3. Corporation Tax
2. Income Tax
4. Goods and Services Tax
60. Gopika Varma has won the Sangeet Natak Akademi Award in 2019 in which of the following dance forms?
1. Kathak
3. Mohiniyattam
2. Bharatanatyam
4. Kuchipudi
61. What is the IUPAC name of the organic compound depicted in the figure?
1. 1-Methyl-1-Propylcyclohexane
2. 1-Methyl-2-Propylcyclohexane
3. 1-Methyl-4-Propylcyclohexane
4. 1-Methyl-3-Propylcyclohexane
- 
62. Identify whether the given statements about ionisation energy are correct or incorrect.
Statement A: The ionisation energy of an atom is the amount of energy that is required to remove an electron from a mole of atoms in the gas phase.
Statement B: The ionisation energy increases from top to bottom in groups and decreases from left to right across a period.
1. Both Statements A and B are correct
2. Only Statement A is correct
3. Both Statements A and B are incorrect
4. Only Statement B is correct
63. Which of the following sports does NOT have its apex national governing body headquartered in New Delhi?
1. Athletes Federation of India
2. Badminton Association of India
3. Volleyball Federation of India
4. Hockey India
64. Which of the following is an autobiography of a Bengali illiterate woman who secretly acquired literacy skills to read sacred texts in an age when girls and women were denied education and deemed fit only for household chores?
1. Ente Katha by Kamala Das
2. Amar Jiban by Rassundari Devi
3. Jina Amucha by Baby Kamble
4. Smritichitre by Lakshmbai Tilak
65. The Lucknow Pact was signed in _____ by Congress and the Muslim League to work in alliance for representative government.
1. 1920 2. 1914 3. 1916 4. 1918
66. What is most important health benefits of Vitamin D?
1. Strengthening of bones and muscles
2. Reducing the blood pressure
3. Rapid growth after teenage years
4. Elevation of heartbeat
67. What is the name of the geostationary satellite launched by ISRO in 1983 that provides high power TV broadcasting and telecommunications national coverage transponders?
1. Bhaskara-I 2. Insat-1B 3. GSAT-7 4. RISAT-1
68. Which Article of the Indian Constitution provides for equal opportunity for all citizens in the matter of employment under the state?
1. Article 17
3. Article 18
2. Article 16
4. Article 15
69. Which Rajput princess belonged to the Bhakti tradition of Medieval India, whose songs were devoted to Lord Krishna?
1. Mirabai
3. Lal Ded
2. Muddupalani
4. Akka Mahadevi
70. When was the National Interim Government of India formed, under Jawaharlal Nehru?
1. 2 September 1946
3. 20 September 1946
2. 2 September 1947
4. 2 September 1945
71. Which among the following is INCORRECT about the salient features of the 73rd Amendment Act?
1. The Act gives a Constitutional status to the Panchayati Raj Institutions.
2. It contains 29 functional items of the Panchayats and deals with Article 243 to 243(O).
3. The Act has added the Eleventh Schedule to the Constitution of India.
4. The Act corresponds to Part III of the Constitution of India.
72. Which element of the boron family has a high boiling point, making it ideal for recording temperatures that would vaporise a thermometer?
1. Thallium 2. Aluminium 3. Gallium 4. Indium
73. How many medal(s) did India win in the World Athletics Championship 2022?
1. 4 2. 2 3. 3 4. 1
74. Who became the first Indian to win the prestigious Zurich Diamond League Final 2022 in Switzerland?
1. Rameshbabu Pragganandhaa
2. Mary Kom
3. Neeraj Chopra
4. PV Sindhu
75. Which of the following government departments is associated with infrastructure development in India?
1. Division of Economic Agenda
2. Division of Electricity Agenda
3. Department of Energy Affairs
4. Department of Economic Affairs
76. Identify an anomaly element that belongs to both group 1 and group 17.
1. Oxygen 2. Hydrogen 3. Chlorine 4. Nitrogen
77. The Vijayanagar kingdom was established by _____ in 1336.
1. Venkata II 2. Devaraya II
3. Krishnadevaraya 4. Harihara and Bukka
78. Which of the following is the new alluvium deposited by floods in the Ganga Plain?
1. Regur 2. Khadar 3. Kachhar 4. Bhangar

79. Which of the following Articles of the Constitution of India provides that the Governor appoints the Chief Minister and later, the Chief Minister recommends the appointment of ministers to the Governor?
 1. Article 167 2. Article 165
 3. Article 164 4. Article 163
80. What was the rural literacy rate in India, according to the 2011 Census?
 1. 67.00% 2. 66.77% 3. 67.77% 4. 69.00%
81. FIFA Women's World Cup 2023 will be hosted by _____.
 1. Australia and New Zealand
 2. USA and Canada
 3. France and Germany
 4. Brazil and Argentina
82. The President of India decides on the question as to the disqualification of Members of Parliament in consultation with the _____.
 1. Supreme Court of India
 2. Parliament
 3. Vice President
 4. Election Commission of India
83. Mohiniyattam, a classical dance of India belongs to which of the following states?
 1. Uttar Pradesh 2. Kerala
 3. Andhra Pradesh 4. Manipur
84. Which of the following is NOT an example of manufacturing activity?
 1. Yarn made from cotton
 2. Sugar made from sugarcane
 3. Paper made from wood
 4. Mutual fund product made by combining debt and equity funds
85. Which of the following is INCORRECT match?
 1. Pressure – Pascal 2. Volume – Meter
 3. Force – Newton 4. Work done – Joule
86. Which part of the Indian Constitution deals with directive principles of state policy?
 1. Part VII 2. Part VI 3. Part V 4. Part IV
87. Mango showers are:
 1. cyclones 2. jet streams
 3. storms 4. pre-monsoon showers
88. What type of climate is found in North Western Europe, West Coast of North America, North of California, Southern Chile, South-eastern Australia and New Zealand?
 1. Marine west coast climate
 2. Cold snow forest climate
 3. Subtropical steppe climate
 4. Tropical wet and dry climate
89. Which of the following places of India can have maximum temperature difference between the day and night?
 1. Thiruvananthapuram 2. Jaisalmer
 3. Port Blair 4. Kanyakumari
90. Sattriya belongs to which of the following states?
 1. Jharkhand 2. Chhattisgarh
 3. Karnataka 4. Assam
91. Haripriya Namboodiri is an exponent of which Indian classical dance form?
 1. Kathakali 2. Kuchipudi
 3. Odissi 4. Bharatanatyam
92. During one of the Five-Year Plans which of the following politicians gave the slogan 'Garibi Hatao'?
 1. Charan Singh 2. Giani Zail Singh
 3. Morarji Desai 4. Indira Gandhi
93. During which phase of the cell cycle does metabolic changes assemble the cytoplasmic material required for mitosis and cytokinesis?
 1. G2 phase 2. G1 phase 3. S phase 4. M phase
94. Expenditure of the government on health facilities, education and fixed-asset acquisition is termed as _____.
 1. revenue expenditure
 2. plan expenditure
 3. non-plan revenue expenditure
 4. capital expenditure
95. Which of the following is the autobiography of the first Indian President Dr. Rajendra Prasad?
 1. Atmavrittanta 2. Atmakatha
 3. A Shot at History 4. My Country My Life
96. Which of the following policy measures is a step towards liberalisation?
 1. Enhancing tariffs
 2. Eliminating licenses for importing a majority of goods
 3. Imposing limits on capital accumulation
 4. Increasing requirements for bank reserves and restrictions on interest rates
97. Which of the following cultural festivals of South India is associated with the folklore of King Mahabali?
 1. Gudi Padwa 2. Ugadi 3. Pongal 4. Onam
98. Europeans entered India with a mindset of trading only. This streak was initiated by which of the following European nations?
 1. French 2. Portuguese 3. British 4. Dutch
99. How big are red blood cells in diameter?
 1. 7.5 μm 2. 2.0 μm 3. 4.0 μm 4. 40.0 μm
100. In which year Timur's invasion of Delhi took place?
 1. 1492 2. 1221 3. 1526 4. 1398

Quantitative Aptitude

101. Find the value of $\sqrt{\frac{1-\tan A}{1+\tan A}}$.
 1. $\sqrt{\frac{1+\sin 2A}{\cos 2A}}$ 2. $\sqrt{\frac{1-\sin 2A}{\cos 2A}}$ 3. $\sqrt{\frac{1+\sin A}{\cos A}}$ 4. $\sqrt{\frac{1-\sin A}{\cos A}}$
102. If the diameter of a sphere is reduced to its half, then the volume would be:
 1. increased by $\frac{1}{4}$ of the former volume
 2. reduced by $\frac{1}{4}$ of the former volume
 3. increased by $\frac{1}{8}$ of the former volume
 4. reduced by $\frac{1}{8}$ of the former volume
103. The HCF of 3888 and 3969 is:
 1. 81 2. 73 3. 83 4. 71
104. Which is the smallest natural number that is exactly divisible by each of 96, 108 and 144?
 1. 864 2. 2592 3. 1296 4. 1728
105. Find the HCF of 240, 280 and 560.
 1. 30 2. 10 3. 20 4. 40
106. The following table shows the number of mobile phones sold by four different stores in four different years.

Stores	2012	2013	2014	2015
P	178	183	205	225
Q	133	198	220	235
R	284	250	220	198
S	225	243	199	205

Find the difference between the number of mobile phones sold by store Q in 2013 and store S in 2015.

1. 12 2. 7 3. 10 4. 8

107. The table below shows the production of jute fabric (in lakh metre) by two Companies P and Q during 2001 to 2005.

Year	Company P	Company Q
2001	100	96
2002	120	130
2003	108	100
2004	190	180
2005	240	275

In which year/years, did Company Q produce more fabric than Company P?

1. 2002 2. 2005 3. 2003, 2005 4. 2002, 2005

108. A car, during its entire journey of 5 hours, travels the first 45 minutes at a certain speed, the next 75 minutes at a speed of 85 km/h, and the last 3 hours at a speed of 70 km/h. During its entire journey, the average speed of the car is found to be 73 km/h. What is the speed (in km/h) of the car during the first 45 minutes?

1. 65 2. 68 3. 62 4. 72

109. Peter invested a certain sum of money in a scheme paying 10% simple interest per annum, while Rachel invested half of the sum that Peter invested in a scheme paying 10% interest per annum compounded annually. Also, while Peter invested for 2 years, Rachel invested for 3 years. If the difference in the interest earned by Peter and Rachel was ₹897, what was the sum that Rachel had invested?

1. ₹13,000 2. ₹12,900 3. ₹13,100 4. ₹12,960

110. The price of almonds is increased by 10%. By what percentage should the consumption be decreased so that the expenditure remains the same?

1. $9\frac{1}{11}\%$ 2. $5\frac{3}{11}\%$ 3. $8\frac{1}{11}\%$ 4. $10\frac{3}{11}\%$

111. A vendor marked the selling price of a table at ₹5,670 after adding 35% profit to its cost price. Since the sale was very low at this price level, he decided to sell the table with 12% profit. Find the new selling price (in ₹).

1. 4,810 2. 4,750 3. 4,704 4. 4,608

112. The time taken to travel the same distance by three cars is in the ratio of 12:15:10. What is the ratio of the speeds of the three cars?

1. 4 : 5 : 6 2. 4 : 6 : 5 3. 5 : 4 : 6 4. 5 : 6 : 4

113. Find the area of a triangle whose length of two sides are 4 cm and 5 cm and the angle between them is 45° .

1. $4\sqrt{2} \text{ cm}^2$ 2. $7\sqrt{2} \text{ cm}^2$ 3. $5\sqrt{2} \text{ cm}^2$ 4. $6\sqrt{2} \text{ cm}^2$

114. If a shopkeeper allows a discount of 10% to his customers and still gains 30%, then the marked price of an article which costs ₹450 is:

1. ₹700 2. ₹650 3. ₹500 4. ₹750

115. The fourth proportional to 0.3, 0.8 and 0.108 is:

1. 0.144 2. 0.124 3. 0.288 4. 0.482

116. Simplify the given expression.

$$\frac{(3.254 \times 3.254 \times 3.254) - (0.746 \times 0.746 \times 0.746)}{(3.254 \times 3.254) + (0.746 \times 0.746) + (3.254 \times 0.747)}$$

1. 3.156 2. 4.508 3. 2.146 4. 2.508

117. The price of a land passing through three hands rises on the whole by 65%. The first and second sellers earned 20% and 25% profit, respectively. Find the profit percentage earned by the third seller.

1. 10% 2. 20% 3. 25% 4. 15%

118. Study the given table and answer the question that follows.

The table shows the number of people who responded to a survey about their favourite style of music.

Age	18-20	21-30	31+
Classical	8	5	15
Pop	5	11	10
Hip-Hop	6	9	8
Rock	9	7	13
Total	28	32	46

What percentage of the total sample indicated that Rock is their favourite style of music (rounded off to 2 decimal places)?

1. 27.36% 2. 18.25% 3. 29.65% 4. 22.35%

119. The following table shows the percentage population of four towns below poverty line and the proportion of males and females:

Town	Percentage of population below poverty line	Below poverty line	Above poverty line
		Male : Female	Male : Female
A	10	1 : 3	3 : 2
B	15	3 : 4	1 : 2
C	20	2 : 3	5 : 3
D	25	4 : 5	5 : 4

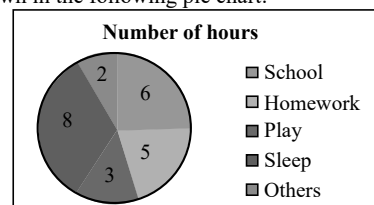
If the total population of town C is 8000 then what is the number of females above the poverty line in state C?

1. 2000 2. 2200 3. 2400 4. 2600

120. The value of $\frac{(157 \times 157) + (157 \times 133) + (133 \times 133)}{(157 \times 157 \times 157) - (133 \times 133 \times 133)}$ is:

1. $\frac{1}{24}$ 2. 24 3. 290 4. $\frac{1}{290}$

121. The number of hours spent by a student on different activities as shown in the following pie chart:



The central angle corresponding to the sleeping time is what percentage of the whole central angle?

1. 66.66% 2. 33.33% 3. 55% 4. 50%

122. The area of a rectangular field is 480 m^2 . If the length is 20% more than the breadth, then the length of the rectangular field is:

1. 30 m 2. 20 m 3. 24 m 4. 27 m

123. In a circle centred at O, PQ is a tangent at P. Furthermore, AB is the chord of the circle and is extended to Q. If PQ = 12 cm and QB = 8 cm, then the length of AB is equal to:

1. 20 cm 2. 4 cm 3. 10 cm 4. 8 cm

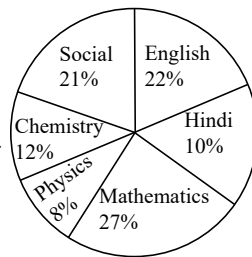
124. The upstream speed of a boat is 8 km/h and the downstream is 15 km/h. What is the speed of the boat in still water and the speed of the stream (in km/h), respectively?

1. 11 and 3 2. 3 and 11 3. 11.5 and 3.5 4. 3.5 and 11.5

125. A number is first decreased by 28% and then increased by 28%. The number so obtained is 784 less than the original number. Find the value of the original number.

1. 1000 2. 15000 3. 10000 4. 1500

126. The following pie chart shows the number of students who failed in different subjects in an examination. Examine the chart and answer the following question. The total number of students who have failed is 350. The number of students failed in mathematics is less than the number of students failed in all other subjects by:



1. 190 2. 256 3. 95 4. 161

127. Simplify the following.

$$19 \div 5 \text{ of } (27 - 15 - 21) + 37$$

1. $\frac{6125}{165}$ 2. $\frac{19}{165}$ 3. $\frac{6142}{165}$ 4. $\frac{37}{165}$

128. The price of a stock increased by 30% in the first year and decreased by 20% in the second year. If an investor bought 100 shares of the stock for ₹1,000, then what is the final value of the investment after 2 years?

1. ₹960 2. ₹1,040 3. ₹1,400 4. ₹1,020

129. The LCM of two numbers is 660 and their HCF is 5. If one of the numbers is 55, find the other.

1. 275 2. 12 3. 110 4. 60

130. Some medicine in liquid form is prepared in a hemispherical container of diameter 36 cm. When the container is full of medicine, the medicine is transferred to small cylindrical bottles of diameter 6 cm and height 6 cm. How many bottles are required to empty the container?

1. 76 2. 72 3. 70 4. 75

131. Tom can do a piece of work in 7 days, whereas Jay can do the same work in 14 days. How long will they take to finish the work if both work together?

1. $5\frac{2}{3}$ days 2. $4\frac{2}{3}$ days 3. $7\frac{2}{3}$ days 4. $2\frac{2}{3}$ days

132. Two trains of lengths 200 m and 250 m are running on parallel rail tracks at speeds of 68 km/h and 50 km/h, respectively. In how much time (in seconds) will they cross each other if they are running in the same direction?

1. 90 2. 85 3. 80 4. 75

133. Travelling a distance of 1000 km, a train slowed down due to repairs of the tracks. Its average speed for the trip reduced by 75 km/h and the time of travel increased by 3 hours. The original duration of the travel is:

1. 6 hours 2. 5 hours 3. 5.5 hours 4. 6.5 hours

134. $7 \sin^2 A + 3 \cos^2 A = 4$, then find $\cot A$:

1. $\sqrt{3}$ 2. $\sqrt{2}$ 3. $\frac{1}{\sqrt{2}}$ 4. $\frac{1}{\sqrt{3}}$

135. If $\sec A - \tan A = p$, then find the value of $\sec A$.

1. $\frac{p^2 - 1}{p^2 + 1}$ 2. $\frac{p^2 + 1}{p^2 - 1}$ 3. $\frac{p^2 + 1}{p}$ 4. $\frac{p^2 + 1}{2p}$

136. $2(\sin 1^\circ \times \sec 89^\circ) + 3(\cos 11^\circ \times \operatorname{cosec} 79^\circ) + 5(\tan 21^\circ \times \tan 69^\circ) = ?$

1. 11 2. 12 3. 20 4. 10

137. A person has three iron bars whose lengths are 20, 30 and 40 metres, respectively. He wants to cut pieces of the same length from each of the three bars. What is the least number of total pieces if he cuts without any wastage?

1. 8 2. 10 3. 9 4. 11

138. In a ΔPQR , $\angle P : \angle Q : \angle R = 3 : 4 : 8$. The shortest side and the longest side of the triangle, respectively, are:

1. PQ and PR 2. QR and PR 3. PQ and QR 4. QR and PQ

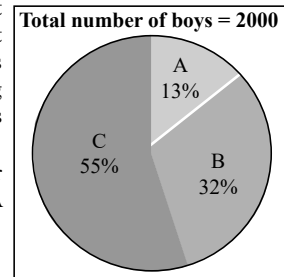
139. In a triangle ABC, if $\angle B = 90^\circ$, $\angle C = 90^\circ$ and $AC = 4$ cm, then the value of BC

1. $\sqrt{2}$ cm 2. 4 cm 3. $2\sqrt{2}$ cm 4. $4\sqrt{2}$ cm

140. Study the given pie-chart and answer the question that follows. The pie-chart shows the number of boys studying in play groups of various schools (A, B, C).

What is the average number of boys studying in schools A and C?

1. 740 2. 920
3. 560 4. 680



141. In an office, 75 employees can finish a project in 60 days. After few days, 15 employees left the job and the project was completed in 65 days. After how many days did the 15 employees leave?

1. 50 2. 45 3. 30 4. 40

142. Ramesh borrowed ₹15,000 at a certain rate of simple interest from a bank. He repaid (the principal but not interest) ₹6,000 after 5 years, and after 5 more years he paid ₹18,600 and settled his account. Find the rate of simple interest per annum.

1. 12% 2. 10% 3. 8% 4. 6%

143. Let ABC, PQR be two congruent triangles such that $\angle A = \angle P = 90^\circ$. If $BC = 17$ cm, $PR = 8$ cm, find AB (in cm).

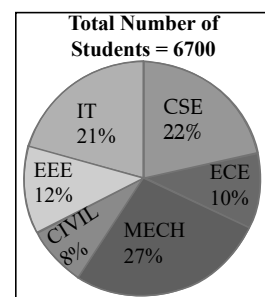
1. 12 2. 15 3. 14 4. 9

144. Study the pie-chart given below, and answer the question that follows. Percentage-wise break up of students in terms of specialisation in BTech

What is the total number of students having specialisation in CSE, ECE and CIVIL?

1. 2680 2. 2840

3. 2860 4. 2480



145. The LCM and HCF of two numbers are 1105 and 5. If the LCM is 17 times the first number, then find the two numbers.

1. 65 and 85 2. 55 and 85 3. 65 and 75 4. 60 and 80

146. Akshita and Raina are typing a book, but have only one laptop to work upon. They decided that they will work on alternate basis such that Akshita works for the first day, Raina works for the second day, Akshita for the third day and so on. Akshita alone can finish the typing work in 16 days, while Raina will take 24 days if she works alone on the entire book. How many days will they take to finish the typing work if they work on alternate basis?

1. 15 2. 18 3. 19 4. 17

147. A train covers a distance of 540 km between two stations in 240 minutes. It travels at a speed of 90 km/h to another station in 5 hours. What is the average speed of the train (in km/h)?

1. 112 2. 110 3. 100 4. 120

148. The heights of two cones are in the ratio 7:5 and their diameters are in the ratio 10:21. What is the ratio of their volumes?

(where $\pi = \frac{22}{7}$)

1. 26:47 2. 14:19 3. 20:63 4. 17:21

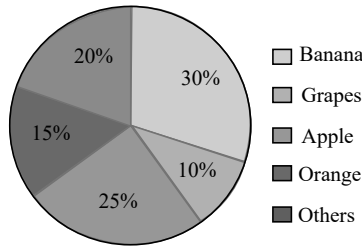
149. What is the difference between a single discount of 35% on ₹700 and two successive discounts of 18% and 12% on the same amount (correct to two places of decimals)?

1. ₹51.20 2. ₹50.12 3. ₹52.10 4. ₹49.80

150. Study the given pie-chart and answer the question that follows. The pie-chart shows the sale of different fruits in a shop in a day.

If a total of 1200 kg of fruits were sold in a day, calculate the amount of bananas sold (in kg).

1. 360 2. 290 3. 330 4. 260



English Comprehension

151. Select the most appropriate ANTONYM of the given word.
Transparent

1. Crossover 2. Linger 3. Opaque 4. Oppress

152. Select the most appropriate meaning of the underlined idiom.

The office management was in dire straits after the financial crash.

1. To be extremely happy
2. In a very bad situation
3. Being direct or fair
4. To walk on already trodden paths

153. Select the INCORRECTLY spelt word.

1. Puzzled 2. Nasal
3. Councel 4. Embezzlement

154. Select the option that can be used as a one-word substitute for the given group of words.

Lasting for a very short time

1. Eternal 2. Ephemeral
3. Blasphemy 4. Chronology

155. Select the most appropriate idiom that can substitute the underlined segment in the given sentence.

Do you believe that you have a possibility of getting that job?

1. spill the beans 2. snow job
3. stand a chance 4. shoot the breeze

156. Select the most appropriate synonym of the given word.

Aggravate

1. Annoy 2. Mitigate 3. Enhance 4. Satisfy

157. Choose the idiom that can best substitute the underlined part of the given sentence.

Shelley ignored her father's wish of studying arts and instead took admission in commerce.

1. Blew over 2. Big fish
3. Bid defiance to 4. Beyond the pale

158. Select the most appropriate meaning of the given idiom.

Get your act together

1. To ruin one's plans
2. To organise yourself so that you can do something properly
3. To get the conversation going
4. To understand something complicated

159. Identify from the given options the word most similar in meaning to the underlined word according to its meaning in the following sentence.

He is a person who holds old fashioned opinions.

1. obsolete 2. ancient
3. antique 4. senior citizen

160. Select the most appropriate option that can substitute the underlined words in the given sentence.

Kiran's teacher was doubtful on her success.

1. doubtful beyond 2. doubtful in
3. doubtful off 4. doubtful of

161. Select the correct spelling for the INCORRECTLY spelt word in the given sentence.

The Eustachian tube and vestibular complex in the middle and inner ear, respectively, have an important role to play.

1. vestibular 2. midle
3. respictively 4. importent

162. Select the most appropriate idiom to fill in the blank.

There are others waiting to grab an opportunity; if you don't act fast, you are going to _____.

1. be in the same boat 2. a full boat
3. push the boat out 4. miss the boat

163. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.

Mr. Khanna and family / have visit / Manali during / the summer vacation.

1. have visit 2. Mr. Khanna and family
3. the summer vacation. 4. Manali during

164. Select the most appropriate idiom for the given situation.

He started with an online company and became a millionaire. Then, he sold it and invested in the share market and earned more money. Now, he has invested in the transportation industry and is generating huge wealth. What does he have?

1. As genuine as a three-dollar bill
2. Midas touch
3. Rule of thumb
4. Sticky fingers

165. The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

There was no other book / in the English language / which is as interesting as this one.

1. There was no other book
2. in the English language
3. No error
4. which is as interesting as this one

166. Select the option that can be used as a one-word substitute for the given group of words.

Very attractive and easy to feel love for

1. Flamboyant 2. Adorable 3. Mysterious 4. Laudable

167. Select the most appropriate meaning of the underlined word.

He uses one of the finest ingredients in his cooking.

1. Components 2. Mixtures
3. Culinary 4. Preparations

168. Select the most appropriate ANTONYM of the given word.

Abhor

1. Occupy 2. Despise 3. Danger 4. Love

169. Select the option that can be used as a one-word substitute for the underlined words.

He was not willing to attend the technical session of the conference.

1. dejecting 2. reluctant
3. curious 4. comprehensive

170. Select the option that can be used as a one-word substitute for the given group of words.

A disease prevalent in a community or a specific region at a specific time, affecting a large area.

1. Pandemic 2. Eradicate 3. Epidemic 4. Endemic

171. Select the most appropriate ANTONYM of the given word.
Apex
1. Pinnacle 2. Bottom 3. Farthest 4. Watchful
172. Select the most appropriate meaning of the underlined word.
Ram was abandoned by his parents at a very early age.
1. Loved 2. Left 3. Hated 4. Disgraced
173. Select the most appropriate meaning of the given idiom.
Part and parcel
1. Passing blame to someone else
2. Agreement with someone
3. A payment system for parcels
4. Basic or essential element
174. Choose the most appropriate meaning of the underlined phrase.
What we need is skilled and energetic planning and elbow grease.
1. The grease that is earned through labour
2. Hard work that one puts into cleaning one's elbow
3. Hard work that one puts into removing grease
4. Hard work that one puts into doing something
175. Select the most appropriate synonym of the given word.
Robe
1. Robbery 2. Mishap 3. Success 4. Cloak
176. Select the most appropriate meaning of the given idiom.
A snowball effect
1. An accelerating growth of magnitude
2. Trick someone completely
3. Cold and uncomfortable
4. Slow movement
177. Some words in the following sentence have been underlined and given as options. Select the option that contains a spelling error.
Roshni does a fabulouous job at her company and has been offered a promotion.
1. fabulouous 2. company 3. promotion 4. offered
178. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.
I have never / come to / such a kind person / like my friend.
1. such a kind person 2. like my friend
3. come to 4. I have never
179. Select the most appropriate option that can substitute the underlined word in the given sentence.
The Board of Film Analysts vituperated the novice Indonesian film-maker and cancelled its nomination for the 'Golden Globe Award'.
1. lamented the untimely death of
2. censured with harsh and abusive language
3. dealt in a delicate and polite manner
4. recognised and praised the talent of
180. Select the most appropriate idiom to substitute the underlined segment in the given sentence.
My final round of Spell Bee Competition is coming up and to win this event, I need to study hard from today.
1. burn the books 2. hit the books
3. cut to the chase 4. pour my heart out
181. Select the option that can be used as a one-word substitute for the given group of words.
To have a strong emotional effect on.
1. To forfeit 2. To overwhelm
3. To smother 4. To yield
182. Select the INCORRECTLY spelt word.
1. Ocassion 2. Agreeable 3. Formulae 4. Waitress
183. Select the most appropriate option that can substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.
Harry is the one sitting on the corner.
1. No substitution required 2. upon
3. onto 4. in
184. Select the INCORRECTLY spelt word from the underlined words in the following sentence.
Communities must build their resileince, including adopting appropriate technologies while making the most of traditional knowledge, and diversifying their livelihoods to cope with current and future climate stress.
1. livelihoods 2. diversifying
3. appropriate 4. resileince
185. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.
The university has putting off / the semester examination / for the second time now / due to technical issues.
1. the semester examination
2. due to technical issues
3. for the second time now
4. The university has putting off
186. Select the correct option to substitute the underlined segment in the given sentence. If no substitution is required, select 'No substitution'.
Her smile is similar to her mother.
1. No substitution 2. her mother's
3. mother 4. the mother
187. Select the most appropriate ANTONYM of the given word.
Inquisitive
1. Careful 2. Dull
3. Uninterested 4. Indolent
188. Parts of the following sentence have been given as options. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.
Anant was telling a story about his most recent exploits when a tree branch break the living room window.
1. about his most recent exploits
2. when a tree branch break the living room window
3. Anant was telling a story
4. No error
189. Select the option that can be used as a one-word substitute for the given group of words.
An animal or a person that eats all types of food, especially plants and meat
1. Vegetarian 2. Herbivore 3. Omnivore 4. Carnivore
190. Select the most appropriate ANTONYM of the given word.
Bombastic
1. Essential 2. Sarcastic 3. Plain 4. Rhythmic
- In the following passage some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.**
- Among the largest species of cats in the world, tigers are powerful hunters with (1) _____ teeth, strong jaws and agile bodies. They range across Asia from Russia all the way to Sumatra and mainland Southeast Asia. Researchers still have much to learn (2) _____ these beautiful, endangered (3) _____. There is currently one recognised species of tiger, *Panthera tigris*. Scientists have further (4) _____ the tiger into nine subspecies: the extinct Bali, Caspian and Javan subspecies, and the living Malayan, Sumatran, South China, Indochinese, Bengal and Amur (or Siberian) subspecies. Of

these six subspecies, AZA-accredited zoos currently manage three: Amur, Malayan, and Sumatran. The Smithsonian's National Zoo and Conservation Biology Institute is home to Sumatran and Amur tigers; Sumatran tigers are (5) _____ as Critically Endangered on the International Union for Conservation of Nature's Red List, and Amur tigers have been classified as Endangered.

191. Select the most appropriate option to fill blank number 1.

1. Long 2. Small 3. Blunt 4. Sharp

192. Select the most appropriate option to fill blank number 2.

1. With 2. Into 3. About 4. Along

193. Select the most appropriate option to fill blank number 3.

1. Rabbits 2. Cats 3. Elephants 4. Dogs

194. Select the most appropriate option to fill blank number 4.

1. Declared 2. Restricted
3. Generalised 4. Classified

195. Select the most appropriate option to fill blank number 5.

1. Numerated 2. Detailed 3. Recorded 4. Listed

Read the given passage and answer the questions that follow.

What if globally designed products could radically change how we work, produce and consume? Several examples across continents show the way we are producing and consuming goods could be improved by relying on globally shared digital resources, such as design, knowledge and software. Imagine a prosthetic hand designed by geographically dispersed communities of scientists, designers and enthusiasts in a collaborative manner via the web. All knowledge and software

related to the hand is shared globally as a digital commons. People from all over the world who are connected online and have access to local manufacturing machines (from 3D printing and CNC machines to low-tech crafts and tools) can, ideally with the help of an expert, manufacture a customised hand. This is the case of the Open Bionics project, which produces designs for robotic and bionic devices. There are no patent costs to pay for. Less transportation of materials is needed, since a considerable part of the manufacturing takes place locally; maintenance is easier, products are designed to last as long as possible, and costs are thus much lower.

196. Identify the most suitable title for the given passage.

1. Knowledge Explosion 2. Customised Hand
3. Shared Information 4. Digital Globalisation

197. What is the term used in the passage for globally shared digital things?

1. Digital commons 2. Digital information
3. Digital resources 4. Digital world

198. What is the tone of the author?

1. Speculative 2. Caustic 3. Acerbic 4. Belligerent

199. Which of the following is NOT a globally shared digital resource?

1. Knowledge 2. Design
3. Automobile 4. Software

200. Select the most suitable word from the passage which means 'scattered'.

1. Collaborative 2. Shared
3. Customised 4. Dispersed

Answer Key

1. (2)	2. (2)	3. (4)	4. (4)	5. (4)	6. (1)	7. (4)	8. (4)	9. (4)	10. (1)
11. (1)	12. (1)	13. (1)	14. (1)	15. (3)	16. (4)	17. (1)	18. (2)	19. (2)	20. (4)
21. (2)	22. (1)	23. (1)	24. (3)	25. (4)	26. (1)	27. (3)	28. (3)	29. (4)	30. (2)
31. (4)	32. (3)	33. (2)	34. (1)	35. (2)	36. (1)	37. (4)	38. (3)	39. (4)	40. (4)
41. (2)	42. (1)	43. (3)	44. (3)	45. (3)	46. (4)	47. (2)	48. (1)	49. (1)	50. (2)
51. (3)	52. (2)	53. (3)	54. (1)	55. (3)	56. (3)	57. (4)	58. (2)	59. (4)	60. (3)
61. (4)	62. (2)	63. (3)	64. (2)	65. (3)	66. (1)	67. (2)	68. (2)	69. (1)	70. (1)
71. (4)	72. (3)	73. (4)	74. (3)	75. (4)	76. (2)	77. (4)	78. (2)	79. (3)	80. (2)
81. (1)	82. (4)	83. (2)	84. (4)	85. (2)	86. (4)	87. (4)	88. (1)	89. (2)	90. (4)
91. (1)	92. (4)	93. (1)	94. (4)	95. (2)	96. (2)	97. (4)	98. (2)	99. (1)	100. (4)
101. (2)	102. (4)	103. (1)	104. (1)	105. (4)	106. (2)	107. (4)	108. (1)	109. (1)	110. (1)
111. (3)	112. (3)	113. (3)	114. (2)	115. (3)	116. (4)	117. (1)	118. (1)	119. (3)	120. (1)
121. (2)	122. (3)	123. (3)	124. (3)	125. (3)	126. (4)	127. (1)	128. (2)	129. (4)	130. (2)
131. (2)	132. (1)	133. (2)	134. (1)	135. (4)	136. (4)	137. (3)	138. (4)	139. (3)	140. (4)
141. (4)	142. (3)	143. (2)	144. (1)	145. (1)	146. (3)	147. (2)	148. (3)	149. (2)	150. (1)
151. (3)	152. (2)	153. (3)	154. (2)	155. (3)	156. (1)	157. (3)	158. (2)	159. (1)	160. (4)
161. (1)	162. (4)	163. (1)	164. (2)	165. (1)	166. (2)	167. (1)	168. (4)	169. (2)	170. (3)
171. (2)	172. (2)	173. (4)	174. (4)	175. (4)	176. (1)	177. (1)	178. (3)	179. (2)	180. (2)
181. (2)	182. (1)	183. (4)	184. (4)	185. (4)	186. (2)	187. (3)	188. (2)	189. (3)	190. (3)
191. (4)	192. (3)	193. (2)	194. (4)	195. (4)	196. (4)	197. (1)	198. (1)	199. (3)	200. (4)