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learn key Concepts  
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**100% Exam  
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with Latest Five  
Years' Trend Analysis  
(2019-23)

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(2019-23)



1<sup>st</sup> EDITION

YEAR 2024



ISBN

"9789359583372"



**SYLLABUS  
COVERED**

# SSC Multi-Tasking Staff



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**OSWAAL BOOKS &  
LEARNING PVT. LTD.**



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Agra - 282002, (UP) India



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# PREFACE

Staff Selection Commission (SSC) recruits candidates for Multi Tasking (Non-technical) Staff, and Haval-  
dar (CBIC & CBN). The commission releases MTS exam notification annually to conduct recruitment for  
various non-technical posts.. It is an Open Competitive Examination for recruitment of **Multi-Tasking  
(Non-Technical) Staff**, a General Central Service Group 'C' (Non-Gazetted, Non-Ministerial) post in var-  
ious Ministries/Departments/ Offices of the Government of India and various Constitutional Bodies/Stat-  
utory Bodies/Tribunals, etc., in different States/Union Territories and Havaladar a General Central Service  
Group „C” Non-Gazetted, Non-Ministerial post in Central Board of Indirect Taxes and Customs (CBIC)  
and Central Bureau of Narcotics (CBN) under Department of Revenue, Ministry of Finance.

The intake application rate for SSC Multi Tasking (Non-technical) Staff, and Havaladar (CBIC & CBN)  
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 Multi Tasking (Non-technical) Staff, and Havaladar  
(CBIC & CBN) 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 Multi Tasking (Non-technical) Staff, and Haval-  
dar (CBIC & CBN), 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 25 Solved Papers  
(2016 - 2023) of Multi Tasking (Non-technical) Staff, and Havaladar (CBIC & CBN).

## How will this book benefit students?

- **100% Updated** with 2023 Papers Fully Solved
- **Extensive Practice** with 2500+ Previous Years Questions & 2 Sample Papers
- **Concept Clarity:** Learn Key Concepts through Detailed Explanations
- **100% Exam Readiness** with Latest Five Years’ Trend Analysis (2019-2023)
- **Valuable Exam Insights** with Hints, Short-cuts, Expert Tips to Crack SSC MTS Exam in the  
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 Multi Tasking (Non-technical) Staff, and Haval-  
dar (CBIC & CBN). 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 First Attempt

1.

## Start your planning at the right time

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 Multi Tasking (Non-technical) Staff, and Havalдар (CBIC & CBN) preparation at the initial stage can help in reviewing all the concepts on time and thus, scoring high marks.

2.

## Know the Syllabus

The initial step prior to starting the planning is to know the detailed prospectus of SSC Multi Tasking (Non-technical) Staff, and Havalдар (CBIC & CBN). The syllabus assists with having a reasonable comprehension of what all must be examined. With the assistance of the SSC Multi Tasking (Non-technical) Staff, and Havalдар (CBIC & CBN) syllabus, students can plan their studies and focus on points that will require additional time and concepts.

3.

## Check the SSC Multi Tasking (Non-technical) Staff, and Havalдар (CBIC & CBN) Exam Pattern

Having a knowledge of how the SSC Multi Tasking (Non-technical) Staff, and Havalдар (CBIC & CBN) exam will be conducted, the type of questions posed or the marking scheme is profoundly advantageous. The SSC Multi Tasking (Non-technical) Staff, and Havalдар (CBIC & CBN) test comprises of Multiple Choice Questions (MCQs).

4.

## Get the right tools and study material

Success in scoring high in SSC Multi Tasking (Non-technical) Staff, and Havalдар (CBIC & CBN) depends upon studying from the right books such as Oswaal Books. You can refer to Oswaal Books SSC Multi Tasking (Non-technical) Staff, and Havalдар (CBIC & CBN) 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.

## Practice a lot of Sample Papers

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 Multi Tasking (Non-technical) Staff, and Havalдар (CBIC & CBN): 25 Solved Papers to practice for the upcoming exams.

6.

## Revise whenever you get time

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

7.

## Analysing your performance

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 18 to 25 years for MTS and Havaldar in CBN and Age limit of the candidates should be from 18-27 years for Havaldar in CBIC and few posts of MTS.

Permissible relaxation in upper age limit prescribed will be as follows:

Category	Age-relaxation permissible beyond the upper age limit
SC/ ST	5 years
OBC	3 years
PwBD (Unreserved)	10 years
PwBD (OBC)	13 years
Ex-Servicemen (ESM)	03 years after deduction of the military service rendered from the actual age as on closing date of receipt of online application.

**Educational Qualifications**

The educational qualification for the post is a 10<sup>th</sup> pass or its equivalent from a recognized Educational Board.

**Scheme of Examination:**

The examination consists of a Computer Based Examination, Physical Efficiency Test (PET)/ Physical Standard Test (PST) (only for the post of Havaldar). The Computer Based Examination is conducted in Hindi, English and in 13 regional languages viz.

**Computer Based Examination (CBE):**

Part	Subject	Number of Questions/ Maximum Marks	Time Duration (For all four Parts)
<b>Session-I</b>			
I	Numerical and Mathematical Ability	20/60	45 Minutes (60 Minutes for candidates eligible for scribes as disabilities (PwD))
II	Reasoning Ability and Problem Solving	20/60	
<b>Session-II</b>			
I	General Awareness	25/75	45 Minutes (60 Minutes for candidates eligible for scribes as disabilities (PwD))
II	English Language and Comprehension	25/75	

There is no negative marking in Session-I (Numerical and Mathematical Ability & Reasoning Ability and Problem Solving). In Session-II (General Awareness & English Language and Comprehension) , there is a negative marking of one mark for each wrong answer.

## Overview of the SSC MTS Exam

Computer Based Examination will consist of Objective Type, Multiple choice questions. The questions will be set in English, Hindi, and in 13 regional languages for Session-I and the General Awareness Section of Session-II.

There will be no negative marking in Session-I. In Session-II, there will be negative marking of one mark for each wrong answer.

Minimum qualifying marks in Session-I and as well as in Session-II of Computer Based Examination are as follows:

Category	Qualifying percentage
UR	30%
OBC/EWS	25%
All other categories	20%

For the post of MTS, Candidates will be shortlisted on the basis of their performance in Session-II of CBE. Normalized scores of the candidates will be used to determine merit in CBE. The merit list would be prepared solely based on performance in Session-II.

### **Physical Efficiency Test (PET):**

	Male	Female
Walking	1600 meters in 15 minutes.	1 Km in 20 minutes

### **Physical Standard Test (PST):**

The minimum physical standards for the post of Havaldar in CBIC and CBN are as follows:

#### **Male:**

Height	Weight
157.5 cms. (relaxable by 5 cms. in the case of Garhwalis, Assamese, Gorkhas and members of Schedule Tribes)	Chest-81 cms. (Fully expanded with minimum expansion of 5 cms.)

#### **Female:**

Height	Weight
152 cms. relaxable by 2.5 Cms in the case of Garhwalis, Assamese, Gorkhas and members of Schedule Tribes)	48 kg (relaxable by 2 Kg in the case of Garhwalis, Assamese, Gorkhas and members of Schedule Tribes)

# Latest Syllabus of SSC MTS

## Latest Syllabus of SSC MTS

Indicative Syllabus for Computer Based Examination:

**Numerical and Mathematical Ability:** It will include questions on problems relating to Integers and Whole Numbers, LCM and HCF, Decimals and Fractions, Relationship between numbers, Fundamental Arithmetic Operations and BODMAS, Percentage, Ratio and Proportions, Work and Time, Direct and inverse Proportions, Averages, Simple Interest, Profit and Loss, Discount, Area and Perimeter of Basic Geometric Figures, Distance and Time, Lines and Angles, Interpretation of simple Graphs and Data, Square and Square roots etc.

**Reasoning Ability and Problem Solving:** The questions in this part intend to measure the candidates general learning ability. The questions will be broadly based on Alpha-Numeric Series, Coding and Decoding, Analogy, Following Directions, Similarities and Differences, Jumbling, Problem Solving and Analysis, Non-verbal Reasoning based on diagrams, age Calculations, Calendar and Clock, etc.

**General Awareness:** The broad coverage of the test will be on Social Studies (History, Geography, Art and Culture, Civics, Economics), General Science and Environmental studies up to 10<sup>th</sup> Standard.

**English Language and Comprehension:** Candidates' understanding of the basics of English Language, its vocabulary, grammar, sentence structure, synonyms, antonyms and its correct usage, etc. and to test comprehension, a simple paragraph may be given and question based on the paragraph to be asked.

For VH candidates of 40% and above visual disability, there will be no component of Maps/Graphs/ Diagrams/Statistical Data in the Paper.



## Trend Analysis (2023 -2019)

General English						
Chapter Name	Topic Name	Sep-23	May-23	Jul-22	Oct-20	Aug-19
Vacabulary	Antonym	1	2	1	2	2
	Synonym	2	2	2	2	2
	Spelling	2	2	2	2	2
	Idioms & Phrases	3	2	2	2	2
	One word substitution	4	2	3	5	5
Reading Comprehension	Reading Comprehension	5	5	5	6	6
Grammar	Error Identification	4	5	3	3	3
Fill in the blanks	Cloze test	1	1	2		
	One Word	2	4	5	3	3
Sentence Formation & Logical Sequence	Parajumbles					
	Sentence Corrections	1				
	Actice & Passive					
	Direct & Indirect Narration					
<b>Total Questions</b>		<b>25</b>	<b>25</b>	<b>25</b>	<b>25</b>	<b>25</b>

Numerical Aptitude						
Chapter Name	Topic Name	Sep-23	May-23	Jul-22	Oct-20	Aug-19
Number System	Simplification	1	1		1	1
	Divisibility Rules			2	1	1
	Sum of Numbers				1	1
	HCF & LCM		2			2
	Factors					
Arithmetic	Percentage	1	2	1	1	1
	Simple Interest & Compound Interest	3	2	2	2	3
	Average		1	3	2	2
	Profit, loss and Discount	2	2	3	3	2
	Ratio & Proportion and Partnership	3	2	3	2	2
	Time, Speed & Distance	4	3	2	2	2
	Time & Work	2	1	3	3	2

## Trend Analysis (2022 -2019)

Algebra	Algebraic Expression					
Geometry	Triangles				1	
	Circles			1		
	Quadrilateral					
Mensuration	Sphere/square		1	1	1	2
	Cube/cuboid	1	1			1
	Hemishpere					
	Cylinder/cone	1		1	1	
	Trapezium					
	Rectangles				1	
	Hexagon					
Trigonometry	Trigonometric Ratios					
	Properties of Triangle					
	Trigonometric Identities					
	Height & Distance					
Data Interpretation	Pie Chart	1	1	1		
	Tabular	1	1	1		3
	Bar Graph			1	3	
<b>Total Questions</b>		<b>20</b>	<b>20</b>	<b>25</b>	<b>25</b>	<b>25</b>

General Intelligence & Reasoning						
Chapter Name	Topic Name	Sep-23	May-23	Jul-22	Oct-20	Aug-19
Mathematical Operations	Mathematical Symbol	1	2	2	2	2
	Mathematical Symbol & Alphabet letter	1				
Blood Relations	Symbol & Letter Based Relation	2	2	2	1	3
	Family Relation					
Matrix	Number Based	1	1	1		

## Trend Analysis (2022 -2019)

Non-Verbal (Mirror Image, Counting figure, Embedded figure)	Embedded figure	1	3	1	3	2
	Mirror Image	1		1	1	1
	Figure Letter & Symbol Series	1		3		
	Paper Cutting			1	1	1
	Figure Series					
Coding-Decoding	Word Coding	1	3	4	2	2
	Word & Number Coding	1			2	2
	Group of words Coding					
Odd one out	Letters or word					
	Number Based			1		
Direction Sense Test	Movement - Left & Right		2		1	
Sitting Arrangement	Row Arrangement				1	1
	Ractangular Arrangement			1		
	Circular Arrangement	1		1		1
Statement & Conclusion	3 Statements & 4 Conclusions				1	
	3 Statements & 3 Conclusions		1		1	2
	3 Statements & 2 Conclusions					
	1 Statements & 2 Conclusions	2	1	1		
Analogy	Word /Letter Analogy				1	
	Number Analogy		1	1	1	1
Series	Alphabet Letter Series	2	1	1	1	2
	Number Series	3	2	1	3	3
Calendar	Day & Date Based	1				
Cube & Dice	Face Number, Letter & Colour Based					
	Symbol Based Cube					

## Trend Analysis (2022 -2019)

Miscellaneous	English Dictionary Order Words Sequence				1	
	Venn Diagram				1	1
	Logical Words Sequence	1	1	2	1	1
	Number Ratio/percentage					
	Logical Puzzle					
	Number of Triangles/ Squares in the Figure					
<b>Total Questions</b>		<b>20</b>	<b>20</b>	<b>25</b>	<b>25</b>	<b>25</b>

General Awareness						
Chapter Name	Topic Name	Sep-23	May-23	Jul-22	Oct-20	Aug-19
Polity & Indian Costitution	Indian Constitution	1	2	2	1	1
	Five Year Plan					
Economics	GDP	1	1		1	3
	Schemes	1				
	Budget		1	1		
History	Modern History		1	1	1	
	Medieval History	2			1	2
	Ancient History		4	2	3	2
Geography	Ecology & Environment	1	5	1		1
Science & Technology	Physics	1		1	3	1
	Chemistry				1	1
	Biology	1	3	3	3	2
Miscellaneous	Sports	1	2	3	1	2
	Awards	2			2	1
	Art & Culture	6	3	5	3	3
	Book & Author	1			2	1
	Autobiography	1	1	1		
	Personality	2	1	2		2
	Appointment					
	Organizations		1			1
Fact Based	3		4	2	3	
<b>Total Questions</b>		<b>25</b>	<b>25</b>	<b>25</b>	<b>25</b>	<b>25</b>

# Positive Affirmations

An affirmation is a positive statement or phrase that individuals repeat to themselves with the intention of fostering a positive mindset, self-confidence, or personal development. The practice involves affirming desired beliefs or qualities, often in the present tense, to reinforce a positive self-image and encourage a more optimistic outlook.

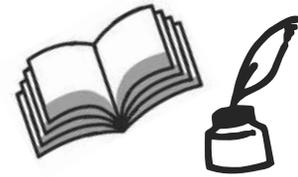
**“ EMBRACE YOUR UNIQUENESS, NOURISH SELF-CARE, AND PRESS FORWARD RELENTLESSLY. TO ACHIEVE FLIGHT, UNLOAD THE BAGGAGE THAT SLOWS YOUR ASCENT.”**



I strongly trust in my vision and work diligently towards making it a reality.



I am not defined by grades & test scores. My true worth lies in my character, compassion and positive impact I have on others.



I am capable of learning and growing everyday.



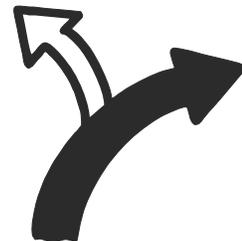
I embrace my mistakes, learn from them and use them to fuel my growth & resilience.



I celebrate my quirks, for they make me beautifully unique.



My voice matters and I believe in the power of my words to shape the world around me.



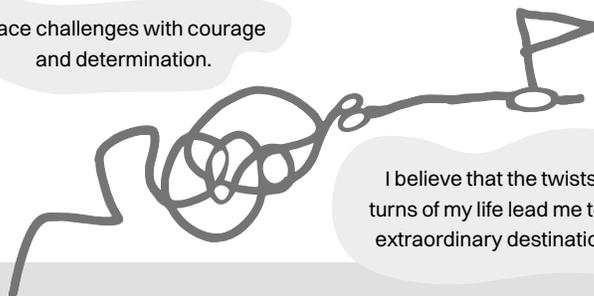
I am not the product of circumstances, I am the product of my own choices.



I face challenges with courage and determination.



I celebrate the achievements of others without diminishing my journey.



I believe that the twists & turns of my life lead me to an extraordinary destinations.

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<b>DELHI</b>	<b>DELHI</b> Mittal Books, (011) 23288887, 9899037390, Singhania Book & Stationer, 9212028238, AoneBooks, New Delhi, 8800497047, Radhey Book Depot, 9818314141, Batheja Super Store, 9871833924, Lov Dev & Sons, Delhi ( E & C ), 9811182352, Zombozone, 9871274082, LDS Marketing, 9811182352/9999353491
<b>AHMEDABAD</b>	<b>GUJARAT</b> Patel Book, 9898184248, 9824386112, 9825900335, Zaveri Agency, 9979897312, 9979890330, Hardik Book Agency, (ISC) 079-24110043, 9904659821
<b>BHAVNAGAR</b>	Samir Book Stall, Bhavnagar (ISC) 9586305305
<b>DAHOD</b>	Collegian Book Corner, 9925501981
<b>VAPI</b>	Goutam Book Sellers, 9081790813
<b>VALSAD</b>	Mahavir Stationers, 9429474177
<b>NAVSARI</b>	College Store, (ISC) NO CALL 02637-258642, 9825099121
<b>SURAT</b>	Shopping Point, 9824108663
<b>VADODARA</b>	Umakant Book Sellers & Stationer, 9624920709
<b>ROHTAK</b>	<b>HARYANA</b> Manish Traders, 9812556687, Swami Kitab Ghar, 9355611088, Babu Ram Pradeep Kumar, 9813214692
<b>REWARI</b>	Sanjay book depot, 9255447231
<b>BALLABGARH</b>	Kashi Ram Kishan Ial, 9289504004, 8920567245
<b>HISAR</b>	Natraj Book Distributors, 7988917452
<b>BHUNA</b>	Khurana Book Store, 9896572520
<b>JAMMU</b>	Sahitya Sangam, 9419190177
<b>BOKARO</b>	<b>JHARKHAND</b> Bokaro Student Friends, (0654) 2233094, 7360021503, Bharati Bhawan Agencies, 9431740797
<b>RANCHI</b>	Crown Book Distributor & Publishers, (0651) 2213735, 9431173904, Pustak Mandir, 9431115138,
<b>DUMKA</b>	Vidyarthi Pustak Bhandar, 9431310228
<b>HUBLI</b>	<b>KARNATAKA</b> Renuka Book Distributor, (0836) 2244124, Vidyanandir Book Distributors, 9980773976
<b>BANGLORE</b>	Krishna book house, 97939847334, Hema Book Stores, 9986767000,
<b>BELLERI</b>	Sapna Book House Pvt. Ltd., 9980513242, Hema Book World, (Chamrajpet) (ISC) 080-40905110, 9945731121
<b>ERNAKULAM</b>	Chatinya book centre, 9886064731
<b>KOTTAYAM</b>	<b>KERALA</b> Academic Book House, (0484) 2376613, H & C Store, 9864196344, Surya Book House, 9847124217, 9847238314
<b>TRIVANDRUM</b>	Book Centre, (0481) 2566992
<b>CALICUT</b>	Academic Book House, (0471) 2333349, 9447063349, Ponni Book Stall, 9037591271
<b>CHHINDWARA</b>	Aman Book Stall, (0495) 2721282,
<b>GWALIOR</b>	<b>MADHYA PRADESH</b> Pustak Bhawan, ( E & C ), 8982150100 Agarwal Book Depot, 9425116210

<b>INDORE</b>	Bhaiya Industries, 9893326853, Sushil Prakashan,(0731) 2503333, 2535892, 9425322330, Bhaiya Store, 9425318103, Arun Prakashan, 9424890785,  Bhaiya Book Centre, 9424081874, Seva Suppliers, 9826451052
<b>JABALPUR</b>	Vinay Pustak Sadan, 8962362667, Anand Books and Stationers, 9425323508
<b>SAGAR</b>	Princi Book Depot, Sagar, 9977277011
<b>KATNI</b>	Shri Mahavir Agency, 9425363412
<b>UJJAIN</b>	Shreenath Book Depot, 9827544045
<b>BHOPAL</b>	Gupta Brother, 9644482444
<b>PUNE</b>	<b>MAHARASHTRA</b> Natraj Book Depot, (020) 24485054, 9890054092, Vikas Book House, 9921331187, Pravin Sales, 9890683475, New Saraswati Granth Bhandar, 9422323859, Akshar Books & Stationary, 7385089789, Vardhaman Educational, 9860574354, Yash Book Centre, 9890156763, Pragati Book Centre, (ISC), 9850039311, Praveen Sales, Pragati Book Centre, Pune ( E & C ), 9850039311
<b>AURANGABAD</b>	Shree Sainath Agencies, 7350294089, Maya Book Centre, (ISC), 9372360150
<b>MUMBAI</b>	Vidyarthi Sales Agencies, 9819776110, New Student Agencies, 7045065799, Shivam Books & Stationery, 8619805332
<b>JALGAON</b>	Sharma Book Depot & Stat. (ISC), 9421393040
<b>LATUR</b>	Yash Book House, 9637936999, Shri Ganesh Pustakalay, 9730172188
<b>KOLHAPUR</b>	Granth the Book World, 9922295522
<b>NAGPUR</b>	Laxmi Pustakalay and Stationers, (0712) 2727354, Vijay Book Depot, 9860122094
<b>NANDED</b>	Renuka Book distributor, 9765406133, Novelty Book Depot, 9657690220, Karamveer Book Depot, 9923966466, Arun Book & Stationers, 9423110953
<b>NASHIK</b>	Abhang Pustakalaya, 9823470756/9175940756
<b>DHULE</b>	Rahul Book Centre, 9970849681, New India Book House, 9623123458
<b>YAVATMAL</b>	Navjeevan Book Stall, 7020525561
<b>VASAI</b>	Shri Ganesh Pustakalaya, 9423131275 Prime Book Centre, Vasai, 9890293662
<b>CUTTACK</b>	<b>ODISHA</b> A. K. Mishra Agencies, 9437025991, 9437081319
<b>BHUBANESHWAR</b>	M/s Pragnya, 8847888616, 9437943777, Padmalaya, 9437026922, Bidyashree, 9937017070, Books Godown, 7894281110
<b>BARIPADA</b>	Trimurti Book World, 9437034735
<b>KEONJHAR</b>	Students corner, 7008435418
<b>AMBALA</b>	<b>PUNJAB</b> Bharat Book Depot, 7988455354
<b>PATIALA</b>	Goel Sons, 9463619978, Adarsh Enterprises, 9814347613
<b>JALANDHAR</b>	Cheap Book Store, 987223458, 987258592, City Book Shop, 9417440753, Subhash Book Depot, 9876453625, Paramvir Enterprises, 9878626248
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<b>LUDHIANA</b>	Amit Book, 9815807871, Gupta Brothers, 9888200206, Bhatia Book Centre, 9815277131
<b>CHANDIGARH</b>	Mohindra Book Depot, 9814920226
<b>AJMER</b>	<b>RAJASTHAN</b> Laxmi General Store, Ajmer, 0145- 2428942 9460652197
<b>KOTA</b>	Vardhman Book Depot, 9571365020, 8003221190 Raj Traders, 9309232829
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<b>AGARTALA</b>	Second Hand Book Stall, 9460004745
<b>COIMBATORE</b>	<b>TRIPURA</b> Book Corner, 8794894165, 8984657146, Book Emporium, 9089230412
<b>CHENNAI</b>	<b>TAMIL NADU</b> Majestic Book House, (0422) 2384333, CBSC Book Shop, 9585979752
<b>PUDUCHERRY</b>	Arraba Book Traders, (044) 25387868, 9841459105, M.R. Book Store (044) 25364596, Kalaimagal Store, (044) 5544072, 9940619404, Vijaya Stores, 9381037417, Bookmark It-Books & Stat. Store, 7305151653, M.K. Store, 9840030099, Tiger Books Pvt. Ltd., 9710447000, New Mylai Stationers, 9841313062, Prince Book House, Chennai, 0444-2053926, 9952068491, S K Publishers & Distributors, 9789865544, Dharmra Book Shop, 8667227171
<b>SALEM</b>	Sri Lakshmi Book Seller, 7871555145
<b>TRICHY</b>	Pattu book centre, 9894816280
<b>THENI</b>	P.R.Sons Book Seller, 9443370597, Rasi Publication, 9894816280
<b>MADURAI</b>	Maya Book Centre, 9443929274
<b>VELLORE</b>	Selvi Book Shoppe, 9843057435, Jayam Book Centre, 9894658036
<b>HYDERABAD</b>	G.K book centre and collections, 9894517994
	<b>TELANGANA</b> Sri Balaji Book Depot, (040) 27613300, 9866355473, Shah Book House, 9849564564 Vishal Book Distributors, 9246333166, Himalaya Book World, 7032578527

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<b>DEHRADUN</b>	Inder Book Agencies, 9634045280, Amar Book Depot , 8130491477, Goyal Book Store, 9897318047, New National Book House, 9897830283/9720590054		<b>JHANSI</b>	Bhanu Book Depot, 9415031340
<b>MUSSORIE</b>	Ram Saran Dass Chanda kiran, 0135-2632785, 9761344588		<b>KANPUR</b>	Radha News Agency, 8957247427, Raj Book Dist., 9235616506, H K Book Distributors, 9935146730, H K Book Distributors, 9506033137/9935146730
	<b>UTTAR PRADESH</b>		<b>LUCKNOW</b>	Vyapar Sadan, 7607102462, Om Book Depot, 7705871398, Azad Book Depot Pvt. Ltd., 7317000250, Book Sadan, 9839487327, Rama Book Depot(Retail), 7355078254, Ashirwad Book Depot, 9235501197, Book.com, 7458922755, Universal Books, 9450302161, Sheetla Book Agency, 9235832418, Vidyarthi Kendra Publisher & Distributor Pvt Ltd, (Gold), 9554967415, Tripathi Book House, 9415425943
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<b>ALLAHABAD</b>	Mehrotra Book Agency, (0532) 2266865, 9415636890		<b>NOIDA</b>	Prozo (Global Edu4 Share Pvt. Ltd), 9318395520, Goyal Books Overseas Pvt.Ltd., 1204655555 9873387003
<b>AZAMGARH</b>	Sasta Sahitya Bhandar, 9450029674		<b>PRAYAGRAJ</b>	Kanhaiya Pustak Bhawan, 9415317109
<b>ALIGARH</b>	K.B.C.L. Agarwal, 9897124960, Shaligram Agencies, 9412317800, New Vimal Books, 9997398868, T.I.C Book centre, 9808039570		<b>MAWANA</b>	Subhash Book Depot, 9760262264
<b>BULANDSHAHR</b>	Rastogi Book Depot, 9837053462/9368978202			<b>WEST BENGAL</b>
<b>BALRAMPUR</b>	Universal Book Center, 8933826726		<b>KOLKATA</b>	Oriental Publishers & Distributor (033) 40628367, Katha 'O' Kahini, (033) 22196313, 22419071, Saha Book House, (033), 22193671, 9333416484, United Book House, 9831344622, Bijay Pustak Bhandar, 8961260603, Shawan Books Distributors, 8336820363, Krishna Book House, 9123083874
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<b>HARDOI</b>	Mittal Pustak Kendra, 9838201466		<b>COOCH BEHAR</b>	S.B. Book Distributor, Cooch behar, 9002670771
<b>DEORIA</b>	Kanodia Book Depot, 9415277835		<b>KHARAGPUR</b>	Subhani Book Store, 9046891334
<b>VARANASI</b>	Gupta Books, 8707225564, Bookman & Company, 9935194495/7668899901		<b>SILIGURI</b>	Agarwal Book House, 9832038727, Modern Book Agency, 8145578772
<b>MATHURA</b>	Sapra Traders, 9410076716, Vijay Book House , 9897254292		<b>DINAJPUR</b>	Krishna Book House, 7031748945
<b>FARRUKHABAD</b>	Anurag Book Agencies, 8844007575		<b>MURSHIDABAD</b>	New Book House, 8944876176
<b>NAJIBABAD</b>	Gupta News Agency, 8868932500, Gupta News Agency, ( E & C ), 8868932500			
<b>DHAMPUR</b>	Ramkumar Mahaveer Prasad, 9411942550			

## Entrance & Competition Distributors

	<b>BIHAR</b>		<b>CUTTAK</b>	A.K.Mishra Agencies, 9437025991
<b>PATNA</b>	Metro Books Corner, 9431647013, Alka Book Agency, 9835655005, Vikas Book Depot, 9504780402		<b>BHUBANESHWAR</b>	M/s Pragnya, 9437943777
	<b>CHATTISGARH</b>		<b>PUNJAB</b>	
<b>KORBA</b>	Kitab Ghar, 9425226528, Shri Ramdev Traders, 9981761797		<b>JALANDHAR</b>	Cheap Book Store, 9872223458, 9878258592
	<b>DELHI</b>		<b>RAJASTHAN</b>	
<b>DELHI</b>	Singhania Book & Stationer, 9212028238, Radhey Book depot, 9818314141, The Book Shop, 9310262701, Mittal Books, 9899037390, Lov Dev & Sons, 9999353491		<b>KOTA</b>	Vardhman Book Depot, 9571365020, Raj Traders, 9309232829
<b>NEW DELHI</b>	Anupam Sales, 9560504617, A ONE BOOKS, 8800497047		<b>JAIPUR</b>	Goyal Book Distributors, 9414782130
	<b>HARYANA</b>		<b>UTTAR PRADESH</b>	
<b>AMBALA</b>	Bharat Book Depot, 7988455354		<b>AGRA</b>	BHAGWATI BOOK STORE, 9149081912, Sparsh Book Agency, 9412257817, Sanjay Publication, 8126699922
	<b>JHARKHAND</b>		<b>ALIGARH</b>	New Vimal Books, 9997398868
<b>BOKARO</b>	Bokaro Student Friends Pvt. Ltd, 7360021503		<b>ALLAHABAD</b>	Mehrotra Book Agency, (532) 2266865, 9415636890
	<b>MADHYA PRADESH</b>		<b>GORAKHPUR</b>	Central Book House, 9935454590
<b>INDORE</b>	Bhaiya Industries, 9109120101		<b>KANPUR</b>	Raj Book Dist, 9235616506
<b>CHHINDWARA</b>	Pustak Bhawan, 9827255997		<b>LUCKNOW</b>	Azad Book Depot PVT LTD, 7317000250, Rama Book Depot(Retail), 7355078254, Ashirwad Book Depot , 9235501197, Book Sadan, 8318643277, Book.com , 7458922755, Sheetla Book Agency, 9235832418
	<b>MAHARASHTRA</b>		<b>PRAYAGRAJ</b>	Format Center, 9335115561, Garg Brothers Trading & Services Pvt. Ltd., 7388100499
<b>NAGPUR</b>	Laxmi Pustakalay and Stationers, (0712) 2727354		<b>UTTAR PRADESH</b>	
<b>PUNE</b>	Pragati Book Centre, 9850039311		<b>DEHRADUN</b>	Inder Book Agancies, 9634045280
<b>MUMBAI</b>	New Student Agencies LLP, 7045065799			<b>WEST BENGAL</b>
	<b>ODISHA</b>		<b>KOLKATA</b>	Bijay Pustak Bhandar Pvt. Ltd., 8961260603, Saha Book House, 9674827254, United Book House, 9831344622, Techno World, 9830168159
<b>BARIPADA</b>	Trimurti Book World, 9437034735			

# WRITING YOUR NOTES

**Just in case you have forgotten today, takedown your notes!**

**But why is it so important?**

Tools for the hands are tools for the brain writes Hetty Roessingh.

Handwritten notes are a powerful tool for encrypting embodied cognition and in turn supporting the brain's capacity for recuperation of information. If that sounds so scientific then in simple words:

Writing notes by hand help you in:

- Increasing your comprehension
- Strengthening your memory
- Igniting your creativity
- Engaging your mind
- Increasing your attention span

Are these reasons enough to get you started?

1. ....
2. ....
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18. ....
19. ....
20. ....

**STAFF SELECTION COMMISSION**  
**Multi Tasking (Non-Technical) Staff**

**SOLVED PAPER**

**(14<sup>th</sup> September 2023: Shift-1)**

**Time Allotted-** 90 Minutes

**Max marks-** 270

**Important Instructions:-**

- ⇒ This paper contains 90 questions which are divided into 4 sections and 2 sections each has 20 questions each and other 2 has 25 questions each.
  - ✓ General English
  - ✓ Numerical Aptitude
  - ✓ General Intelligence & Reasoning
  - ✓ General Awareness
- ⇒ There will be 3 marks for each correct answer and also there is no negative marking in General Intelligence & Reasoning and Numerical Aptitude sections. But in the General Awareness & General English sections, there is a negative marking of one mark for each wrong answer.
- ⇒ Each question is compulsory to attempt and there will be no negative marking for unattempted questions.

**General English**

1. Select the most appropriate option to fill in the blank.  
Dr. APJ Abdul Kalam was a great man with a high level of \_\_\_\_\_.  
1. intelligent humour                      3. intellect  
2. wise boredom                              4. clever fatigue
2. The following sentence contains some errors. Select the option that correctly rectifies the error.  
The forces that generate conditions conducive to crime and riots are stronger in urban communities than in rural areas.  
1. The forces that generate conditions conducive to crime and riots are stronger in urban communities than in rural areas.  
2. The forces that generate conditions conducive to crime and riots are stronger in urban communities than in rural areas.  
3. The forces that generate conditions conducive to crime and riots are stronger in urban communities than in rural areas.  
4. The forces that generate conditions conducive to crime and riots are stronger in urban communities than in rural areas.
3. Select the most appropriate option that can substitute the underlined segment in the given sentence.  
I found my teacher's points casual and informal in the group discussion.  
1. flesh and blood                              3. foot the bill  
2. free and easy                                  4. fair and square
4. Select the word which means the same as the group of words given.  
One who is all powerful.  
1. Omnipresent                                  3. Optimist  
2. Omnipotent                                   4. Omniscient
5. Select the most appropriate option that can substitute the underlined segment in the given sentence.  
Ramesh is owning a beautiful house in Noida.  
1. did owned                                      3. has owning  
2. owns    4. was owned
6. Parts of the following sentence have been given as options. Select the option that contains an error.  
When Nisha will have finished her task?  
1. have    3. finished  
2. when Nisha will                              4. her task
7. Select the most appropriate option that can substitute the underlined segment in the given sentence.  
He push the bushes aside and went a little farther.  
1. pushed with bush                              3. pushes in bush  
2. pushing the bush                              4. pushed the bushes
8. Select the option that can be used as a one-word substitute for the given group of words.  
Copying someone else's work and trying to submit it as your own  
1. Plagiarism                                      3. Preamble  
2. Polygamy                                       4. Extempore
9. Select the most appropriate meaning of the given idiom.  
Beauty of it  
1. Make things worse                              3. Quite ordinary  
2. Cause for dispute                              4. Good points
10. Select the most appropriate synonym of the underlined word.  
The girl was manacled and locked in the room.  
1. unfastened    2. liberated    3. fettered    4. unbanded
11. Select the most appropriate ANTONYM of the underlined word.  
Addiction of drugs proved detrimental for his health.  
1. Impartial                                       3. Beneficial  
2. Potential                                        4. Differential
12. Select the most appropriate synonym of the given word.  
Plunge  
1. Transgress    2. Dive            3. Rush            4. Fly
13. Select the INCORRECTLY spelt word.  
1. Tomatos       2. Weather       3. Vehicle       4. Professor
14. Select the most appropriate option that can rectify the underlined segment in the given sentence. If there is no need to rectify it, select 'no rectification needed'.  
I used a variety of sources to find the more cheap flight.  
1. no rectification needed                      3. cheapest  
2. cheaper     4. cheap
15. Select the INCORRECTLY spelt word in the given sentence.  
All the members of my family are planning to visit Jammu and Kashmir this November.  
1. Novembur    2. Planning    3. Visit            4. Members

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

Ravi will go to the England.

1. the England 2. will 3. Ravi 4. go to

17. Select the most appropriate response in the given situation of the eve of a battle to fill in the blank.

The commander: "Honourable Emperor, all the troops have lined up for the battle and are awaiting your orders." Emperor Chandragupta Maurya: "\_\_\_\_\_."

1. We will march at dawn.  
2. You should learn how to talk to an emperor.  
3. We will be playing cards.  
4. We are ready for the pilgrimage.

18. Select the most appropriate meaning of the underlined idiom.

We prefer going to movies once in a blue moon.

1. Very rarely 3. Very diligently  
2. Very amazingly 4. Very often

19. The following sentence has been split into four segments. Identify the segment that contains an error.

My father told me/that in his childhood/he was walking/to school every day.

1. he was walking 3. my father told me  
2. that in his childhood 4. to school every day

20. Select the most appropriate meaning of the underlined idiom in the given sentence.

Today's question paper felt like a cakewalk.

1. Very sweet 3. Very easy  
2. Very tasty 4. Very difficult

### Comprehension:

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

Modern football (1)\_\_\_\_\_ in Britain in the 19th century. Since before medieval times, 'folk football' games had been played in towns and villages according to local customs and with a (2)\_\_\_\_\_ of rules. Industrialisation and (3)\_\_\_\_\_, which reduced the amount of leisure time and space available to the working class, combined with a history of legal prohibitions against particularly (4)\_\_\_\_\_ and destructive forms of folk football to undermine the game's status from the early 19th century onward. However, football was taken up as a winter game between residence houses at public (independent) schools such as Winchester, Charterhouse and Eton. Each school had its own rules; some allowed limited handling of the ball and others did not. The (5)\_\_\_\_\_ in rules made it difficult for public schoolboys entering university to continue playing except with former schoolmates.

21. Select the most appropriate option to fill in blank no. 1.  
1. terminated 3. originated  
2. culminated 4. fragmented
22. Select the most appropriate option to fill in blank no. 2.  
1. optimum 2. variance 3. minimum 4. maximum
23. Select the most appropriate option to fill in blank no. 3.  
1. normalisation 3. standardisation  
2. urbanisation 4. implementation
24. Select the most appropriate option to fill in blank no. 4.  
1. traces 3. calm  
2. undercurrents 4. violent
25. Select the most appropriate option to fill in blank no. 5.  
1. grouse 2. grunt 3. variance 4. control

### General Intelligence & Reasoning

26. Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. You have to decide which conclusion's logically follow's from the given statements.

**Statements:** All trucks are bikes. All bikes are carts. Some carts are pens.

**Conclusion I:** Some trucks are carts

**Conclusion II:** No bikes are pens.

1. Only conclusion (II) follow.  
2. Both conclusions (I) and (II) follow.  
3. Neither conclusion (I) nor (II) follow.  
4. Only conclusion (I) follow.
27. What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and 'x' and '÷' are interchanged?  
 $357 \times 7 + 19 \div 2 - 38 = ?$   
1. 51 2. 71 3. 61 4. 41
28. RN 12 is related to PL 16 in a certain way. In the same way, EJ 17 is related to CH 21. To which of the following is FL 15 related to following the same logic?  
1. DJ 19 2. HN 18 3. CI 20 4. DK 19
29. Which figure should replace the question mark (?) if the following figure series were to be continued?

X	9	B	☆	T	L	9	X	
	☆		L		X		B	?
B	L	T	X	T	9	9	B	☆

1. 

L	B
	T
☆	X
2. 

X	B
	9
L	T
3. 

☆	B
	T
L	9
4. 

L	T
	☆
X	B
30. Select the combination of letters that when sequentially placed in the blanks of the given series will make it logically complete.  
PYJ\_ S\_LM \_YNM YY\_M B\_RM  
1. PMGHY 2. HAPPY 3. MHAPV 4. MYVPY
31. What should come in place of '?' in the given series?  
3 21 111 561 2811 ?  
1. 12952 2. 13468 3. 14061 4. 12786
32. Select the combination of letters that when sequentially placed in the blanks of the given series, will complete the series.  
\_ FFEF \_ \_ FF \_ F \_  
1. EEEFE 2. EFFE 3. EFEEF 4. EFFEE
33. Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. You have to decide which conclusion/s logically follow/s from the given statements.

**Statements:** Some chargers are metal. All metal are hard. Some hard are stools.

**Conclusion I:** All chargers are metal.

**Conclusion II:** Some stools are hard.

1. Both conclusions (I) and (II) follow.  
2. Neither conclusion (I) nor (II) follow.  
3. Only conclusion (I) follow.  
4. Only conclusion (II) follow.

34. Kiran, Pihu, Siya, Leena, Reena and Jiya are sitting around a circular table facing the centre.  
Kiran sits 3<sup>rd</sup> to the right of Pihu. Siya sits 2<sup>nd</sup> to the right of Kiran. Leena sits 3<sup>rd</sup> to the left of Siya. Reena is an immediate neighbour of Leena.

Who sits to the immediate left of Jiya?

1. Leena      2. Siya      3. Pihu      4. Kiran

35. If 'I' stands for '+', 'J' stands for '×', 'K' stands for and '÷', 'L' stands for '−', what will come in place of the question mark (?) in the following equation?

$$(95 K 19) J 7 L 15 I (10 J 4) = ?$$

1. 50      2. 40      3. 70      4. 60

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



1.      3.   
2.      4.

37. 428 is related to 317 following a certain logic. Following the same logic, 285 is related to 174. To which of the following is 597 related to, following the same logic?

1. 386      2. 368      3. 468      4. 486

38. 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)

(14, 42, 7)

(12, 34, 5)

1. 43, 144, 29      2. 17, 102, 5      3. 25, 131, 2      4. 36, 702, 2

39. If 5<sup>th</sup> May 2010 is Wednesday, then what will be the day of the week on 5<sup>th</sup> June 2022?

1. Tuesday      3. Wednesday  
2. Monday      4. Sunday

40. What should come in place of the question mark (?) in the given series based on the English alphabetical order?

YFD, VJA, SNX, PRU, ?

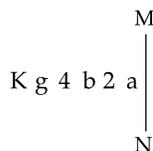
1. MXS      2. MVR      3. NWS      4. NWR

41. What should come in place of? in the given series?

26 37 59 92 136 ?

1. 192      2. 191      3. 190      4. 193

42. Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



1. e 5 b 4 g X      3. 5 2 d 7 g X  
2. e 7 9 4 8 X      4. 5 5 d 4 g X

43. What should come in place of '?' in the given series?

14 85 511 3067 18403 ?

1. 110279      2. 110581      3. 110119      4. 110419

44. In a certain code language, 'NAIL' is coded as '2637' and 'LANE' is coded as '3278'. What is the code for 'E' in the given code language?

1. 8      2. 7      3. 2      4. 3

45. In a certain code language, MENTOR is coded as 'EMOUPS' and 'OCTAGON' is coded as 'COUBHPO'. What is the code for 'PENCIL' in the given code language?

1. EPLICN      2. LINCENP      3. PLICNE      4. EPODJM

**Numerical Aptitude**

46. A and B can do a piece of work in 30 day and 40 days, respectively. They began the work together but after a certain time. A leaves off and B completed the remaining work in 25 days. After how many days did A leave?

1.  $6\frac{3}{7}$       2.  $5\frac{3}{7}$       3.  $5\frac{2}{7}$       4.  $6\frac{1}{7}$

47. 6 skilled workers can complete a work in 4 days. After three days 3 more skilled workers joined them. How many days will they now take to complete the remaining work?

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

48. In a class of boys and girls, the number of girls is twice the number of boys. If 20 more boys join the class, the ratio of girls and boys is 1 : 1. How many total students were there in the class initially?

1. 60      2. 75      3. 45      4. 90

49. Atul sells goods to a customer at a profit of P%. If the cost price of the goods for the customer is ₹ 1,50,000 and Atul makes a profit of ₹ 30,000, then what is the value of P?

1. 22      2. 25      3. 20      4. 28

50. Mixture 1 with a volume 8 litres has 80% milk and Mixture 2 with a volume of 6 litres has 60% milk. Both the mixtures are mixed. Find the percentage of milk in the final mixture.

1.  $\frac{600}{7}$       2.  $\frac{500}{9}$       3.  $\frac{500}{7}$       4.  $\frac{800}{9}$

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

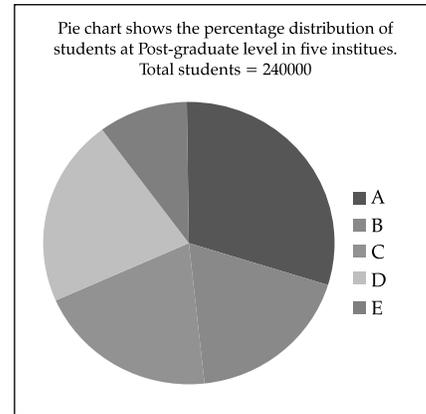
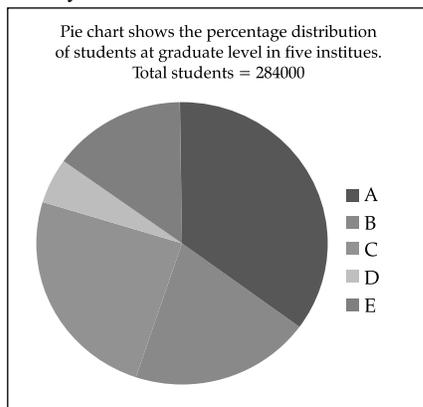
The table shows the number of students appeared and passed in different fields in a University.

Years	Medical		Engineering		Commerce		Management	
	Appeared	Passed	Appeared	Passed	Appeared	Passed	Appeared	Passed
2010	300	250	460	256	380	352	365	322
2011	345	320	440	365	401	354	314	314
2012	280	240	384	327	460	400	378	344
2013	310	230	390	290	430	392	387	353
2014	450	380	415	358	388	352	270	227
2015	380	286	486	456	366	315	290	257

What percentage of total students appearing in 2011, appeared in the medical field?

1. 23%      2. 21%      3. 20%      4. 25%

52. A thief is spotted by a policeman from a distance of 250 m. When the policeman starts chase, the thief also starts running. Assuming that the speed of the thief is 10 km/h and that of the policeman is 12.5 km/h. How far will have the thief run before he is caught?
1. 3 km      2. 1 km      3. 4 km      4. 2 km
53. Simplify:  $6\frac{4}{5} \div \left[ 4\frac{1}{4} \div \left\{ 5\frac{1}{2} \times \frac{3}{8} + \left( 3\frac{1}{2} + \frac{2}{3} \right) \times \frac{4}{5} \right\} \right]$
1.  $8\frac{8}{15}$       2.  $7\frac{8}{25}$       3.  $8\frac{8}{25}$       4.  $7\frac{8}{15}$
54. Amit drove for 6 hours at a speed of 60 miles per hour and for 6 hour at 40 miles per hour. What was his average speed (in miles per hour) for the whole journey?
1. 48      2. 44      3. 46      4. 50
55. A jewel was sold passing through 3 hands and on the whole, its price is raised by 80%. The first seller earns 20% profit and the second seller earns 25% profit, respectively. Find the percentage of profit earned by the third seller.
1. 20%      2. 10%      3. 15%      4. 5%
56. A certain sum is invested at a simple interest rate of 12% per annum for a certain period of time. If the sum becomes four times the principal at the end of the period, what is the duration of the investment?
1. 22 years      2. 24 years      3. 25 years      4. 20 years
57. Mr. Kalra borrowed ₹ 1,35,000 to meet the expenses of his son's education. If the rate of interest is 12% per annum compounded annually, then how much amount will he have to make after 2 years and 3 months to settle the account?
1. ₹ 1,74,424.32      3. ₹ 1,49,920.32  
2. ₹ 1,50,640.40      4. ₹ 1,74,760
58. The ratio of two numbers is 7: 11 and their LCM is 462. What is the difference between these two numbers?
1. 24      2. 26      3. 30      4. 28
59. The diameter of the base of a cylindrical vessel is 30 cm and its height is 56 cm. Find its curved surface area (in cm<sup>2</sup>).
1. 6080      2. 6280      3. 5280      4. 5080
60. The length, breadth and height of a cuboid are in the ratio of 6 : 4 : 3. If the total surface area of the cuboid is 972 cm<sup>2</sup>, what is the length (in cm) of the diagonal of the cuboid?
1.  $5\sqrt{65}$       2.  $3\sqrt{61}$       3.  $3\sqrt{65}$       4.  $5\sqrt{61}$
61. Three numbers are in the ratio 1 : 2 : 3. By adding 5 to each of the numbers then the ratio changes to 2 : 3 : 4. The smallest number is:
1. 5      2. 15      3. 12      4. 20
62. The following pie-charts show the distribution of students of graduate and post-graduate levels in five different institutes in a city.



- What is the total number of students from institutes A, C and E at the graduate level and from institutes B and D at the post-graduate level?
1. 390000      2. 300900      3. 300090      4. 309000
63. The distance between two towns is covered in 9 hours at a speed of 60 kmph. By how much should the speed (in km/h) be increased so that 1 hour of the travelling time is saved?
1. 7.5      2. 10      3. 15      4. 12.5
64. A man decided to cover 7.5 km in 72 minutes. He decided to cover two thirds of the distance at 5 km/h and the remaining at some different speed. Find the speed after two third distance has been covered.
1. 14.3 km/h      2. 15.5 km/h      3. 12.5 km/h      4. 10 km/h
65. Rickey spends 35% of his salary on groceries, 15% on loans, 14% on electricity bills and 6% on miscellaneous. If his savings at the end of a month are ₹ 2,400, then his salary per month (in ₹) is:
1. 8,000      2. 5,828      3. 4,000      4. 6,000

#### General Awareness

66. Identify the vector quantity among these listed physical quantities?
1. Energy      3. Density  
2. Mass      4. Gravitational Intensity
67. 'The Palace of Illusions', a rendition of the Hindu epic 'Mahabharata', was written by which of the following novelists?
1. Chitra Banerjee Divakaruni      3. Devi Yesodharan  
2. Pratibha Ray      4. Indu Sundaresan
68. G Krishnakumar was appointed chairman of which of the following in 2023?
1. Oil and Natural Gas Corporation Limited  
2. Indian Oil Corporation Limited  
3. Bharat Petroleum Corporation Limited  
4. Hindustan Petroleum Corporation Limited
69. \_\_\_\_\_ was the first Indian woman to write an autobiography and also the first to do so in Bengali in her book titled 'Amar Jiban', which was published in 1876.
1. Rassundari Devi      3. Sarala Devi Chaudhurani  
2. Manikuntala Sen      4. Santisudha Ghosh
70. Where is the Vivekanand Rock Memorial situated?
1. Port Blair      3. Kanyakumari  
2. Vishakhapatnam      4. Chennai
71. Under which Act was the rule of British Crown established over India?
1. Government of India Act 1833  
2. Charter Act of 1813  
3. Regulating Act of 1773  
4. Government of India Act 1858

72. The Kolar region of Karnataka is famous for which mineral from the following?  
1. Coal      2. Gold      3. Petroleum      4. Copper
73. Match the following performances of Indian naatya, which were presented by the means of variegated components:  
1) Angika      (a) costumes and make-up  
2) Vachika      (b) depiction of mental or psychological states  
3) Aharya      (c) spoken words  
4) Sattvika      (d) gestures and other bodily movements  
1. 1-c, 2-b, 3-d, 4-a      3. 1-d, 2-c, 3-a, 4-b  
2. 1-a, 2-b, 3-d, 4-c      4. 1-c, 2-a, 3-b, 4-d
74. In Fencing, a contest between the two fencers is known as:  
1. bout      2. remise      3. parry      4. riposte
75. In which year has the Government of India instituted Arjuna Award to recognise outstanding achievement in national sports events?  
1. 1961      2. 1963      3. 1964      4. 1962
76. 'Atla Taddi', a festival celebrated by married and unmarried women alike to seek the blessings of Devi Gauri for a long and happy married life and a suitable groom, respectively, is celebrated in \_\_\_\_\_.  
1. Andhra Pradesh      3. Chhattisgarh  
2. Kerala      4. Odisha
77. PT Usha was elected as the president of which association in December 2022?  
1. Indian Olympic Association  
2. Haryana Olympic Association  
3. National Rifle Association of India  
4. Badminton Association of India
78. As per the NITI Aayog's first Multidimensional Poverty Index (MPI) 2021 report, which state in India ranks first?  
1. Jharkhand      3. Bihar  
2. Chhattisgarh      4. Uttar Pradesh
79. What is the full form of UPSC?  
1. United Public Security Commission  
2. United Power & Security Commission  
3. Union Private Service Committee  
4. Union Public Service Commission
80. To which of the state does Sattriya classical dance belong?  
1. Maharashtra      3. Karnataka  
2. Madhya Pradesh      4. Assam
81. Who among the following was a renowned dancer and the first person from Odisha to receive 'Padma Vibhushan' in 2000?  
1. Prabhat Swain      3. Mayadhar Raut  
2. Gangadhar Pradhan      4. Kelucharan Mohapatra
82. Which musical instrument does N Rajam play?  
1. Sitar      3. Santoor  
2. Violin      4. Guitar
83. Which of the following is NOT a function of money?  
1. Barter system      3. Unit of account  
2. Store of value      4. Medium of exchange
84. According to the Census of India 2011, what was the population density recorded in Bihar?  
1. 1106 persons/km<sup>2</sup>      3. 1050 persons/km<sup>2</sup>  
2. 980 persons/km<sup>2</sup>      4. 1320 persons/km<sup>2</sup>
85. Carbohydrates are utilised by the human body in the form of:  
1. glucose      3. fibre  
2. nucleotides      4. amino acids
86. Which Indian musician is associated with the tabla?  
1. Ustad Bismillah Khan      3. Pandit Ravishankar  
2. Zakir Hussain      4. Ilaiyaraaja
87. On whose advice did Gandhiji spend a year travelling around British India to know the people of India?  
1. Krishnashankar Pandya      3. Shrimad Rajchandra  
2. Mohammad Ali Jinnah      4. Gopal Krishna Gokhale
88. Which deficit reflects the borrowing needs of the government?  
1. Capital deficit      3. Primary deficit  
2. Revenue deficit      4. Fiscal deficit
89. Which of the following fundamental duties was added to the Indian Constitution by the 86<sup>th</sup> Constitutional Amendment Act, 2002?  
1. To abide by the Constitution and respect its ideals and institutions, the National Flag and the National Anthem  
2. To protect and to improve the natural environment including forests, lakes, rivers and wildlife, and to have compassion for living creatures  
3. To provide opportunities for education to his/her child or, as the case may be, ward between the age of six and fourteen years  
4. To cherish and follow the noble ideals which inspired our national struggle for freedom
90. Which of the following rocks are formed during rock metamorphism?  
1. Slate      3. Sandstone  
2. Conglomerate      4. Basalt

### Answer Key

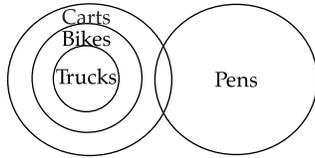
1. (3)	2. (3)	3. (2)	4. (2)	5. (2)	6. (2)	7. (4)	8. (1)	9. (4)	10. (3)
11. (3)	12. (2)	13. (1)	14. (3)	15. (1)	16. (1)	17. (1)	18. (1)	19. (1)	20. (3)
21. (3)	22. (3)	23. (2)	24. (4)	25. (3)	26. (4)	27. (1)	28. (1)	29. (3)	30. (4)
31. (3)	32. (3)	33. (4)	34. (4)	35. (4)	36. (2)	37. (4)	38. (1)	39. (4)	40. (2)
41. (2)	42. (4)	43. (4)	44. (1)	45. (4)	46. (1)	47. (1)	48. (1)	49. (2)	50. (3)
51. (1)	52. (2)	53. (1)	54. (4)	55. (1)	56. (3)	57. (1)	58. (1)	59. (3)	60. (2)
61. (1)	62. (4)	63. (1)	64. (3)	65. (1)	66. (4)	67. (1)	68. (3)	69. (1)	70. (3)
71. (4)	72. (2)	73. (3)	74. (1)	75. (1)	76. (1)	77. (1)	78. (3)	79. (4)	80. (4)
81. (4)	82. (2)	83. (1)	84. (1)	85. (1)	86. (2)	87. (4)	88. (4)	89. (3)	90. (1)

### Answers with Explanations

1. **Option (3) is correct.**  
The noun 'intellect' is appropriate for the blank, because by the process of elimination, we negate options (2) and (4) since they contain negative nouns. The use of 'a great man' mandates the use of positive nouns. But 'humour' is not suitable for the blank. While 'intellect' refers to 'the ability to

understand and to think in an intelligent way'. So this justifies the greatness of Kalam.

2. **Option (3) is correct.**  
The correct sentence is: The forces that generate conditions conducive to crime and riots are stronger in urban communities than in rural areas. The given sentence has errors in the use of 'genarate', 'conduciive', 'riiots', 'rural'.
3. **Option (2) is correct.**  
The correct sentence is: I found my teacher's points free and easy in the group discussion. The phrase 'free and easy' will replace 'casual and informal', which means 'not formal; relaxed in style or manner'.
4. **Option (2) is correct.**  
Omnipresent implies 'present in all places at all times.' 'Optimist' means 'a person who is inclined to be hopeful and to expect good outcomes'. 'Omniscient' is 'knowing everything.'
5. **Option (2) is correct.**  
The correct sentence is: Ramesh owns a beautiful house in Noida. The phrase 'is owning' will be replaced by 'owns' because simple present tense is used for habitual truths and facts. The sentence refers to a fact of Ramesh.
6. **Option (2) is correct.**  
The correct sentence is: When will Nisha have finished her task? Here 'When Nisha will' will be substituted by 'When will Nisha'. This is because in reported speech, in case of interrogative sentences, the structure is: question word + auxiliary verb + noun + main verb + object.
7. **Option (4) is correct.**  
He pushed the bushes aside and went a little farther. Here, 'push the bushes' will be replaced by 'pushed the bushes' because the sentence is in past tense (went).
8. **Option (1) is correct.**  
Plagiarism is the fraudulent representation of another person's language, thoughts, ideas, or expressions as one's own original work. Polygamy is the practice of marrying multiple spouses. A preamble is an introductory statement in a document that explains the document's purpose and underlying philosophy. Extempore is with little or no preparation or forethought.
9. **Option (4) is correct.**  
The idiom 'Beauty of it' refers to a quality that makes something especially good.
10. **Option (3) is correct.**  
The correct sentence is: The girl was manacled and locked in the room. The word 'manacled' means to put manacles around a person's legs or arms. The words 'unfastened/ liberated/ unbinded' are antonyms of the given word. Thus, the correct synonym is 'fettered' (chained).
11. **Option (3) is correct.**  
The word 'detrimental' means 'tending to cause harm.' Therefore, the best antonym is 'beneficial'(resulting in good; favourable or advantageous).
12. **Option (2) is correct.**  
Plunge means to push or drive into something with force. Therefore, the move suitable synonym is 'dive'. Transgress is disobey.
13. **Option (1) is correct.**  
The word 'Tomatos' has been spelt incorrectly. The correct spelling is 'tomatoes'.
14. **Option (3) is correct.**  
The correct sentence is: I used a variety of sources to find the cheapest flight. The phrase 'more cheap' is incorrect and hence will be substituted by 'cheapest'. The rationale behind using the superlative form of adjective (cheapest) is to express the extreme or highest degree of a quality. Moreover, it is usually preceded by the definite article 'the'.
15. **Option (1) is correct.**  
The word 'Novembur' has been spelt incorrectly. It will be spelled as 'November'.
16. **Option (1) is correct.**  
The correct sentence is: Ravi will go to England. The phrase 'the England' will be replaced by 'England', because names of countries are never preceded by articles, except if a country has a political title in its name, or if it refers a group of islands.
17. **Option (1) is correct.**  
The correct sentence is: The commander: "Honourable Emperor, all the troops have lined up for the battle and are awaiting your orders." Emperor Chandragupta Maurya: "We will march at dawn." Since the commander announces about awaiting the Emperor's orders on the next phase after troops are lined up for the battle. The answer must be on the same line- "We will march at dawn." Other options are clear misfits.
18. **Option (1) is correct.**  
The idiom 'once in a blue moon' means 'very rarely.' Example: It is once in a blue moon that my father takes me for a movie, thus, I eagerly anticipate the event.
19. **Option (1) is correct.**  
The correct sentence is: My father told me that in his childhood he walked to school every day. The part 'he was walking' will be replaced by 'he walked'. The use of simple past tense is correct because the sentence refers to a past habit.
20. **Option (3) is correct.**  
Like a cakewalk means something that is very easy to achieve. Example: She expected the exam to be a cakewalk, but was stunned on seeing the level of question paper.
21. **Option (3) is correct.**  
The correct sentence is: Modern football originated in Britain in the 19th century. 'Originated' means 'have a specified beginning' and the beginning of football was in Britain in the 19th century.
22. **Option (3) is correct.**  
The correct sentence is: Since before medieval times, 'folk football' games had been played in towns and villages according to local customs and with a minimum of rules. The football that had started used to be played in towns and villages according to local customs, so the rules can be expected to be minimum.
23. **Option (2) is correct.**  
The correct sentence is: Industrialisation and urbanisation, which reduced the amount of leisure time and space available to the working class. One of the factors that which reduce the amount of leisure time and space available to the working class is urbanisation (the increase in the proportion of people living in towns and cities.)
24. **Option (4) is correct.**  
The correct sentence is: The working class, combined with a history of legal prohibitions against particularly violent and destructive forms of folk football. The use of 'and' with 'destructive forms' necessitate another negative adjective.
25. **Option (3) is correct.**  
The correct sentence is: The variance in rules made it difficult for public schoolboys entering university to continue playing except with former schoolmates. The fact that the rules made it difficult for public schoolboys entering university to continue playing implies that the rules were discrepant, so variance is the appropriate word.
26. **Option (4) is correct.**  
As per the given statements, following venn diagram can be made.



Conclusion I - Some trucks are carts.

As given, all trucks are bikes and all bikes are carts, it implies that some trucks are definitely cart. So, this conclusion follows.

Conclusion II - No bikes are pens.

As given, all bikes are carts and some carts are pens, it implies we cannot definitely say that no bikes are pens. So, this conclusion doesn't follow.

Hence, only conclusion I follows.

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

Given equation:  $357 \times 7 + 19 \div 2 - 38 = ?$

After interchanging the signs, we get:

$$357 \div 7 - 19 \times 2 + 38$$

According to BODMAS rule,

$$\Rightarrow 51 - 19 \times 2 + 38$$

$$\Rightarrow 51 - 38 + 38$$

$$\Rightarrow 51$$

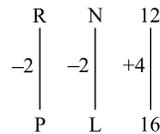
Hence, 51 is the correct answer.

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

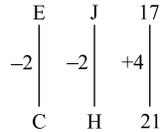
Given that:

RN 12 is related to PL 16

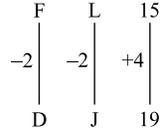
The pattern followed here is:



And, EJ 17 is related to CH 21



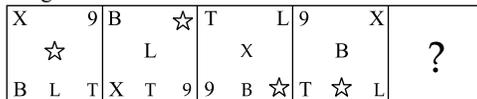
Similarly, for FL 15



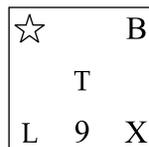
Hence, DJ 19 is the correct answer.

**29. Option (3) is correct.**

Given figure:



As per the pattern followed and the symmetry, the required image is:



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

Given that: PYJ\_S\_LM\_YNM YY\_M B\_RM

Upon inserting the alphabets from option (4), we get

PYJM SYLM VYNM YYPM BYRM

Here, 1<sup>st</sup> letter of each cluster is increasing by 3 positional values.

2<sup>nd</sup> letter is same as Y in all clusters

3<sup>rd</sup> letter is increasing by 2 positional values.

And 4<sup>th</sup> letter is same as M in all cluster.

Hence, it forms a logical series.

**31. Option (3) is correct.**

Given that:

3 21 111 561 2811 ?

The pattern followed here is:

$$(1^{st} \text{ term} \times 5) + 6 = 2^{nd} \text{ term.}$$

So,

$$(3 \times 5) + 6 = 21$$

$$(21 \times 5) + 6 = 111$$

$$(111 \times 5) + 6 = 561$$

$$(561 \times 5) + 6 = 2811$$

$$(2811 \times 5) + 6 = 14061$$

Hence, 14061 is the correct answer.

**32. Option (3) is correct.**

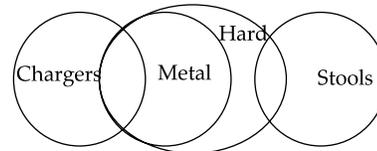
Given that: \_FFEF\_FF\_F\_

Upon inserting the alphabets sequentially from option (3), we get EFFEFFEFFEFF

Hence, it forms a logical series.

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

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



Conclusion I - All chargers are metals.

As given that, some chargers are metal, so we cannot definitely say that all chargers are metals. So, this conclusion doesn't follow.

Conclusion II - Some stools are hard.

As given, some hard are stools, It implies that some stools are hard.

So, this conclusion follows.

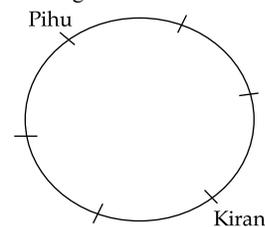
Hence, only conclusion II follows.

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

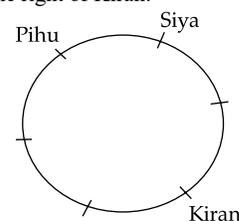
Given that:

Six people are sitting around a circular table facing towards the centre.

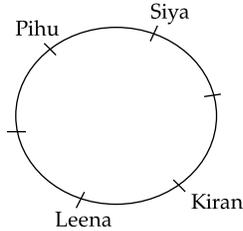
Kiran sits third to the right of Pihu:



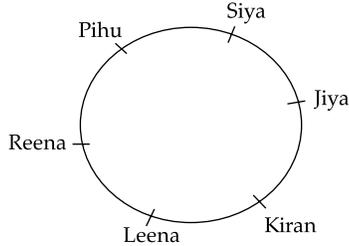
Siya sits 2<sup>nd</sup> to the right of Kiran:



Leena sits third to the left of Siya:



Reena is an immediate neighbour of Leena.



Hence, Kiran sits to the immediate left of Jiya.

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

Given that:  $(95 \text{ K } 19) \text{ J } 7 \text{ L } 15 \text{ I } (10 \text{ J } 4) = ?$

After putting the signs as per the question, we get:

$$(95 \div 19) \times 7 - 15 + (10 \times 4)$$

$$\Rightarrow 5 \times 7 - 15 + 40$$

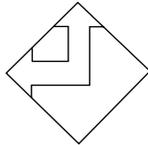
$$\Rightarrow 35 - 15 + 40$$

$$\Rightarrow 75 - 15 = 60$$

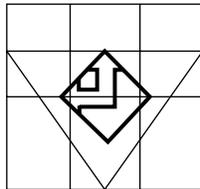
Hence, 60 is the correct answer.

**36. Option (2) is correct.**

Given figure:



The given figure is highlighted in the image from option 2 below:



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

Given that: 428 is related to 317

The pattern followed here is:

$$\begin{array}{ccc} 4 & 2 & 8 \\ -1 & -1 & -1 \\ 3 & 1 & 7 \end{array}$$

And, 285 is related to 174:

$$\begin{array}{ccc} 2 & 8 & 5 \\ -1 & -1 & -1 \\ 1 & 7 & 4 \end{array}$$

Similarly, for 597:

$$\begin{array}{ccc} 5 & 9 & 7 \\ -1 & -1 & -1 \\ 4 & 8 & 6 \end{array}$$

Hence, 486 is the correct answer.

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

Given set:

(14, 42, 7)

(12, 34, 5)

The pattern followed here is:

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

For (14, 42, 7),

$$(14 + 7) \times 2 = 42$$

And for (12, 34, 5),

$$(12 + 5) \times 2 = 34$$

Similarly, upon checking option (1), (43, 144, 29) we get

$$(43 + 29) \times 2 = 144$$

Hence, it is the correct option.

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

Given that: 5<sup>th</sup> may 2010 was Wednesday.

Let's count the number of odd days for each year which needs to be added in Wednesday.

$$2010 = +1$$

$$2011 = +1$$

$$2012 = +2 \text{ (Leap year)}$$

$$2013 = +1$$

$$2014 = +1$$

$$2015 = +1$$

$$2016 = +2 \text{ (Leap year)}$$

$$2017 = +1$$

$$2018 = +1$$

$$2019 = +1$$

$$2020 = +2 \text{ (Leap year)}$$

$$2021 = +1$$

Total no. of odd days = 15

So, 15 days ahead of Wednesday, it will be a Thursday (On 05<sup>th</sup> May 2022)

And, number of days from 05<sup>th</sup> May 2022 to 05<sup>th</sup> June 2022 = 31 days, i.e. 4 weeks + 3 odd days.

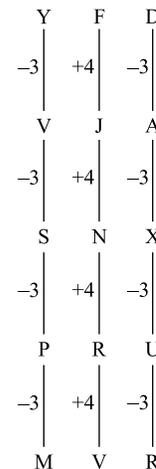
Hence, counting 3 days ahead Thursday, we arrive at Sunday.

**Note:** A Non-leap year consists of 365 days, which is when divided by 7 (a week) results in 52 weeks and a remainder of 1, known as an odd day.  
A leap year consists of 366 days, which is when divided by 7 (a week) results in 52 weeks and a remainder of 2, known as odd days.

**40. Option (2) is correct.**

Given that: YFD, VJA, SNX, PRU, ?

The pattern followed here is:



Hence, MVR is the correct answer.

**41. Option (2) is correct.**

Given series: 26 37 59 92 136 ?

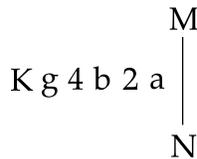
The pattern followed here is:

$$\begin{aligned} 26 + 11 &= 37 \\ 37 + 22 &= 59 \\ 59 + 33 &= 92 \\ 92 + 44 &= 136 \\ 136 + 55 &= 191 \end{aligned}$$

Hence, 191 is the correct answer.

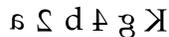
**42. Option (4) is correct.**

Given figure:



In the mirror image, left becomes right and right becomes left.

Hence, the required image is:



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

Given series: 14 85 511 3067 18403 ?

The pattern followed here is:

$$(1^{\text{st}} \text{ term} \times 6) + 1 = 2^{\text{nd}} \text{ term}$$

Now,

$$(14 \times 6) + 1 = 85$$

$$(85 \times 6) + 1 = 511$$

$$(511 \times 6) + 1 = 3067$$

$$(3067 \times 6) + 1 = 18403$$

$$(18403 \times 6) + 1 = 110419$$

Hence, 110419 is the correct answer.

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

NAIL is coded as 2637.

And LANE is coded as 3278.

If we compare both of the words we get,

The codes for the alphabets N, A, L are 3, 2, 7 (In random order), indicating that the only different letter remaining in the word LANE is 'E.'

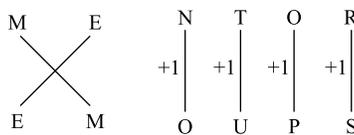
Therefore, there is only 1 digit left for 'E' which is 8.

Hence, E will be coded as 8.

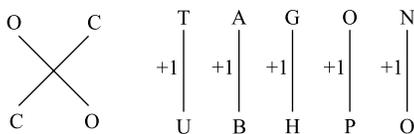
**45. Option (4) is correct.**

Given that: MENTOR is coded as EMOUPS.

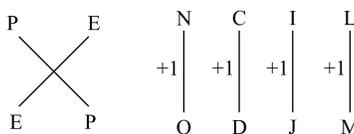
The pattern followed here is:



And, OCTAGON is coded as COUBHPO:



Similarly, for PENCIL:



Hence, PENCIL will be coded as EPODJM.

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

$$\text{A's 1 day work} = \frac{1}{30}, \text{ B's 1 day work} = \frac{1}{40}.$$

Let A left the work after  $x$  days.

$$\text{Work done by A in } x \text{ days} = \frac{x}{30}$$

$$\text{Work done by B in } (x + 25) \text{ days} = \left(\frac{x + 25}{40}\right)$$

$$\text{Given that, } \frac{x}{30} + \frac{(x + 25)}{40} = 1$$

$$\Rightarrow \frac{(4x + 3x + 75)}{120} = 1$$

$$\Rightarrow \frac{7x + 75}{120} = 1$$

$$\Rightarrow 7x + 75 = 120$$

$$\Rightarrow 7x = 120 - 75$$

$$\Rightarrow 7x = 45$$

$$\Rightarrow x = \frac{45}{7} \text{ i.e. } 6\frac{3}{7}$$

Hence, A left after  $6\frac{3}{7}$  days.

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

Work completed by 6 workers in 4 days =  $6 \times 4 = 24$  units

Work completed by 6 workers in 3 days = 18 units

Remaining units = 6

After 3 days, 3 new workers added.

Total workers = 9

Hence, 9 workers can do 6 unit of work in =  $\frac{6}{9} = \frac{2}{3}$  days

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

Let the number of boys =  $x$

$\therefore$  Number of girls =  $2x$

After admission of 20 new boys, the ratio of girls and boys = 1 : 1

$$\therefore \frac{2x}{x + 20} = \frac{1}{1}$$

$$\Rightarrow 2x = x + 20$$

$$\Rightarrow x = 20$$

Total number of students there in class initially are

$$= x + 2x = 3x = 3 \times 20 = 60$$

**49. Option (2) is correct.**

Selling price of goods = ₹150000

Profit on goods = ₹30000

Profit percentage = P%

Cost price of goods = ₹150000 - ₹30000 = ₹120000

$$\Rightarrow P = \frac{30000 \times 100}{120000} = \frac{100}{4} = 25$$

Hence, the value of P is 25.

**50. Option (3) is correct.**

Volume of milk in a mixture - 1 of 8 litres

$$= \frac{80}{100} \times 8 = 6.4 \text{ litres}$$

Volume of milk in a mixture - 2 of 6 litres

$$= \frac{60}{100} \times 6 = 3.6 \text{ litres}$$

Total volume of milk in both the mixtures  
 $= (6.4 + 3.6)$  litres = 10 litres  
 $\therefore$  Percentage of milk in 14 litres of both the mixtures  
 $= \frac{10}{14} \times 100 = \frac{500}{7} \% = 71\frac{3}{7} \%$

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

Total number of students appeared in the exam for all fields in 2011 = 345 + 440 + 401 + 314 = 1500  
 Number of students appeared in exam for medical field in 2011 = 345

$\therefore$  Required percentage =  $\frac{345}{1500} \times 100 = 23\%$

**52. Option (2) is correct.**

Speed of policeman = 12.5 km/h  
 Speed of thief = 10 km/h  
 Effective speed of policeman to catch thief  
 $= (12.5 - 10)$  km/h = 2.5 km/h  
 $= 2.5 \times \frac{5}{18}$  m/s =  $\frac{12.5}{18}$  m/s

Time to cover 250 m by policeman =  $\frac{250}{12.5} \times 18$   
 $= 360$  s = 6 min =  $\frac{1}{10}$  hour

Thief will run distance in  $\frac{1}{10}$  hour =  $10 \times \frac{1}{10}$  km = 1 km

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

Given equation:

$$6\frac{4}{5} \div \left[ 4\frac{1}{4} \div \left\{ 5\frac{1}{2} \times \frac{3}{8} + \left( 3\frac{1}{2} + \frac{2}{3} \right) \times \frac{4}{5} \right\} \right]$$

According to BODMAS rule, we get

$$\frac{34}{5} \div \left[ \frac{17}{4} \div \left\{ \frac{11}{2} \times \frac{3}{8} + \left( \frac{7}{2} + \frac{2}{3} \right) \times \frac{4}{5} \right\} \right]$$

$$\Rightarrow \frac{34}{5} \div \left[ \frac{17}{4} \div \left\{ \frac{33}{16} + \left( \frac{21+4}{6} \right) \times \frac{4}{5} \right\} \right]$$

$$\Rightarrow \frac{34}{5} \div \left[ \frac{17}{4} \div \left\{ \frac{33}{16} + \frac{25}{6} \times \frac{4}{5} \right\} \right]$$

$$\Rightarrow \frac{34}{5} \div \left[ \frac{17}{4} \div \left\{ \frac{33}{16} + \frac{100}{30} \right\} \right]$$

$$\Rightarrow \frac{34}{5} \div \left[ \frac{17}{4} \div \frac{1295}{240} \right]$$

$$\Rightarrow \frac{34}{5} \div \left[ \frac{17}{4} \times \frac{240}{1295} \right]$$

$$\Rightarrow \frac{34}{5} \div \frac{204}{259} \Rightarrow \frac{34}{5} \times \frac{259}{204}$$

$$\Rightarrow \frac{259}{30} = 8\frac{8}{15}$$

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

Total time = (6 + 6) hours = 12 hours  
 Total distance = (60 × 6 + 40 × 6) miles = 600 miles

$\therefore$  Average speed =  $\frac{\text{Total distance}}{\text{Total Time}} = \frac{600}{12}$   
 $= 50$  miles/hour

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

Let cost price of jewel at the start = ₹100  
 Final selling price of jewel after 80% hike = ₹180  
 Selling price of jewel for first seller after 20% gain = ₹120  
 Selling price of jewel for second seller after 25% gain  
 $= \frac{125}{100} \times 120 = ₹150$

$\therefore$  Profit earned by third seller = ₹180 – ₹150 = ₹30

Profit percent for third seller =  $\frac{30}{150} \times 100\% = 20\%$

**56. Option (3) is correct.**

Let the principal sum = ₹x  
 Amount on principal sum after the time period = ₹4x  
 $\therefore$  Simple interest = 4x – x = ₹3x  
 Rate of interest,  $r = 12\%$   
 Let time period =  $t$  years

$$\therefore \text{Simple interest} = \frac{P \times r \times t}{100}$$

$$\Rightarrow 3x = \frac{x \times 12 \times t}{100}$$

$$\Rightarrow 300 = 12t$$

$$\Rightarrow t = 25$$

$\therefore$  The required time period = 25 years

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

Principal sum,  $P = ₹135000$   
 Rate of interest,  $r = 12\%$   
 Time period,  $t = 2$  years and 3 months

$$\text{Amount of loan after 2 years} = P \left[ 1 + \frac{r}{100} \right]^2$$

$$= 135000 \left[ 1 + \frac{12}{100} \right]^2 = 169344$$

$$\text{Interest on ₹169344 for 3 months} = \frac{169344 \times 12 \times 3}{100 \times 12}$$

$$= 5080.32$$

$\therefore$  He has paid amount to settle the loan  
 $= 169344 + 5080.32 = ₹174424.32$

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

Let the two numbers are  $7x$  and  $11x$   
 LCM of two numbers =  $7 \times 11 \times x = 77x$   
 According to the question

$$77x = 462$$

$$\Rightarrow x = 6$$

Now difference between the numbers =  $11x - 7x = 4x$   
 $= 4 \times 6 = 24$

**59. Option (3) is correct.**

Radius of base of cylinder,  $r = \frac{30}{2}$  cm = 15 cm

Height of cylinder,  $h = 56$  cm

$$\text{Curved surface area of cylinder} = 2\pi rh$$

$$= 2 \times \frac{22}{7} \times 15 \times 56$$

$$= 5280 \text{ cm}^2$$

**60. Option (2) is correct.**

Let the length, breadth and height of cuboid are  $6x$ ,  $4x$  and  $3x$  respectively.

$$\text{Total surface of cuboid} = 2(lb + bh + hl)$$

$$= 2[6x \cdot 4x + 4x \cdot 3x + 3x \cdot 6x]$$

$$= 108x^2 = \text{cm}^2$$

According to the question

$$108x^2 = 972$$

$$\Rightarrow x^2 = 9$$

$$\Rightarrow x = 3$$

$$\text{Length of diagonal of cuboid} = \sqrt{l^2 + b^2 + h^2}$$

$$= \sqrt{(6x)^2 + (4x)^2 + (3x)^2}$$

$$= x\sqrt{36 + 16 + 9} = 3\sqrt{61} \text{ cm}$$

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

Let the three number are  $x$ ,  $2x$  and  $3x$ .  
New number after adding 5 to them are  $x + 5$ ,  $2x + 5$  and  $3x + 5$ .  
According to the question

$$(x + 5) : (2x + 5) : (3x + 5) = 2 : 3 : 4$$

$$\Rightarrow \frac{x + 5}{2x + 5} = \frac{2}{3}$$

$$\Rightarrow 3x + 15 = 4x + 10$$

$$\Rightarrow x = 5$$

∴ The numbers are 5, 10 and 15.  
Smallest number = 5

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

Total number of graduate students from institutes A, C and E

$$= \left[ \frac{35 + 15 + 25}{100} \right] \times 284000$$

$$= 213000$$

Total number of post graduate students from institute B and D

$$= \left[ \frac{18 + 22}{100} \right] \times 240000 = 96000$$

∴ Required numbers of students = 213000 + 96000 = 309000

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

Distance between two towns =  $60 \times 9 = 540$  km  
Let the new speed to save 1 hour of journey =  $(60 + x)$  km/h  
According to the question

$$(60 + x)(9 - 1) = 540$$

$$\Rightarrow 480 + 8x = 540$$

$$\Rightarrow x = \frac{60}{8} = 7.5$$

So, the speed should be increased by 7.5 km/h

**64. Option (3) is correct.**

Let speed of the man for last  $\frac{1}{3}$  rd of journey =  $x$  km/h

$$\therefore 72 \text{ mins} = \frac{72}{60} \text{ hours}$$

$$\text{Average speed of journey} = \frac{7.5}{72} \times 60 \text{ km/h} = 6.25 \text{ km/h}$$

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

$$6.25 = \frac{7.5}{\frac{5}{5} + \frac{2.5}{x}}$$

$$\Rightarrow 6.25 = \frac{7.5}{1 + \frac{2.5}{x}}$$

$$\Rightarrow 6.25 + \frac{6.25 \times 2.5}{x} = 7.5$$

$$\Rightarrow x = \frac{6.25 \times 2.5}{1.25} = 12.5$$

∴ Required speed = 12.5 km/h

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

Let the salary of Rocky = ₹ $x$

His saving percentage =  $[100 - 35 - 15 - 14 - 6] \% = 30\%$

$$\therefore \text{Saving} = \frac{30}{100} x$$

$$\Rightarrow \frac{3}{10} x = 2400$$

$$\Rightarrow x = 8000$$

∴ His salary = ₹8000

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

Gravitational intensity is the strength of the gravitational field. Basically, it is the gravitational force acting on a unit test mass.

A vector quantity is a physical quantity that is defined using both magnitude and direction. e.g., Velocity, Displacement.

A scalar quantity is a physical quantity with only magnitude and no direction. e.g., Mass, Distance, speed etc.

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

Books	Author
The Palace of Illusions	Chitra Banerjee Divakaruni
Yajnaseni and Shilapadma	Prabhita Ray
EMPIRE	Devi Yeshodharan
The Twentieth Wife, The Feast of Roses, Shadow Princess, and The Splendor of Silence	Indu Sundaresan

**68. Option (3) is correct.**

Company	Headquarters	Chief
Oil and Natural Gas Corporation Limited	Delhi	Arun Kumar Singh
Indian Oil Corporation Limited	New Delhi	Shrikant Madhav Vaidya
Bharat Petroleum Corporation Limited	Mumbai	G Krishnakumar
Hindustan Petroleum Corporation Limited	Mumbai	Pushp Kumar Joshi

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

Rassundari Devi was the first woman to write an autobiography and also the first to do so in Bengali in her book titled 'Amar Jiban', which was published in 1876. Her book provided an insight into the life and experiences of women in colonial India. She was the wife of Raja Rammohun Roy, who was an Indian reformer and one of the founding fathers of Brahma Samaj. He is considered to be the 'Father of Indian Renaissance.'

**70. Option (3) is correct.**

Vivekanand Rock Memorial is situated in Kanyakumari, Tamil Nadu. It is dedicated to Swami Vivekananda, an Indian monk, author, philosopher, and the chief disciple of Ramakrishna.

The rock was built in the year 1970 in honour of Swami Vivekananda who is believed to have attained enlightenment on this rock. It consists of two main structures: the Vivekananda Mandapam and the Shripada Mandapam. The Vivekananda Mandapam is a majestic stone structure with a

life-size bronze statue of Swami Vivekananda. The Shripada Mandapam is located on another rock nearby and is believed to be the spot where the footprint of the goddess Kumari (an incarnation of the goddess Parvati) is found.

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

The rule of the British Crown was established under the Government of India Act 1858. This act marked the transfer of power and territories from the East India Company to the British administration. This brought India under the direct rule of Queen Victoria. The act was also referred to as the 'Act for Good Government of India.' It led to the appointment of a viceroy, who was the representative of the British crown and Lord Canning was the first such viceroy. India became a direct British colony through the passage of this act. It provided some protection for the freedom of the press and allowed for discussions and debates on public issues.

**72. Option (2) is correct.**

Kolar region is famous for gold and is also known as the Golden City of India. Kolar is situated in Karnataka and is famous for gold mines and milk production. It is also famous for Someshwara temple and Kolaramma temple. Kolaramma is considered as the goddess of the city of Kolar.

**73. Option (3) is correct.**

Angika	Gestures and other bodily movement
Vachika	Spoken words
Aharya	Costumes and make up
Sattvika	Depiction of mental and psychological states

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

In fencing, a contest between two fencers is known as bout. It involves two fencers and a referee. Fencing is a combat sport in which two athletes use swords to attack and defend against one another with the aim of striking their opponent in order to score points.

A remise occurs when a fencer immediately follows up with a second attack, usually after the initial attack has missed or been parried by the opponent. It's a rapid, continuous action to try to score a point in a situation where the first attack did not succeed. Parry is a defensive action used by fencers to deflect or block their opponent's attack. It prevents the opponent's blade from making contact and scoring a point.

Riposte is an offensive action that a fencer takes immediately after successfully parrying their opponent's attack. It is a counter offensive action that follows a successful parry.

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

Arjuna award was instituted in the year 1961. It is presented annually by the Ministry of Youth Affairs and Sports to recognize outstanding achievements and contributions in the field of sports. The sportsperson must have performed consistently on an international platform for three successive years along with the display of sportsmanship. This award is named after Arjuna, a legendary archer and warrior prince from Mahabharata. The recipients of the Arjuna Award are given a bronze statue of Arjuna, a certificate, and a cash prize.

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

Atla Taddi is a traditional festival celebrated by mostly married women in Andhra Pradesh, especially in the Telugu-speaking regions. It typically falls in September or October according to the Gregorian calendar. On this day, women fast from sunrise to moonrise for the well-being and longevity of their husbands. A special dish named 'Atlu' or 'Atukula Atlu' is prepared on this day. Some unmarried women also fast on this day.

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

PT Usha was elected as the President of the Indian Olympic Association (IOA) in December 2022. She is a retired track and field athlete. She is also a former member of the Rajya Sabha. She is fondly known as 'Golden Girl and Payyoli Express.' She is the first woman president of the Indian Olympic Association (IOA) in its 95-year history.

IOA is the governing body for the Olympic Movement and the Commonwealth Games in India and it administers various aspects of sports governance and athletes' welfare in the country. It oversees the representation of athletes or teams participating in the Olympic Games, Commonwealth Games, Asian Games and other international multi-sport competitions of IOC, CGF, OCA and ANOC. It was established in the year 1927 with Sir Dorabji Tata and Dr. A.G. Noehren as the Founding President and Secretary General respectively.

**78. Option (3) is correct.**

Bihar topped among all states in reducing poverty as it witnessed a significant decline in the number of poor people from 51.89% of its population to 33.76% between 2015-16 and 2019-21.

The National Multidimensional Poverty Index (MPI) was released by the NITI Aayog. It seeks to measure poverty across its multiple dimensions based on per capita consumption expenditure. MPI provides estimates for 36 states and Union Territories and 707 administrative districts. The parameters considered are aligned with the sustainable development goals and include three dimensions - health, education and standard of living.

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

UPSC stands for Union Public Service Commission. It is the central government's recruitment agency for recruitment of all the Group 'A' officers for the central public sector undertakings and the central autonomous bodies. Earlier, it was known as the Federal Public Service Commission. It is headquartered in New Delhi and was established on October 1, 1926. The current chairman of UPSC is Dr. Manoj Soni.

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

Sattriya is a classical dance form of Assam. It was introduced by Sankaradeva as a medium for propagation of the Vaishnava faith. It is governed by strictly laid down principles in respect of hastamudras, footworks, aharyas, music

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

Kelucharan Mohapatra is also a master of percussion instruments like Mridangam, Pakhavaj and Tabla. He was an Indian classical guru, and dancer who played a major role in popularising Odissi dance. He was the first person to receive the Padma Vibhushan award in Odisha. He was also skilled in the traditional Pattachitra painting.

Padma Vibhushan is the second-highest civilian award in the Republic of India, after the Bharat Ratna. It is one of the three Padma awards, which are given by the Government of India to recognize and honor exceptional contributions and achievements in various fields, including art, literature, science, sports, and public service.

**82. Option (2) is correct.**

Dr. Narayanaswami Rajam is a classical violinist and musician and is regarded as one of the leading violinists in the field of Carnatic music. She is known for her innovative approach to playing the violin in Carnatic music. N. Rajam was honoured with the prestigious Padma Bhushan for her music.

Violin is a stringed instrument and typically has four strings. It is played by plucking the strings with fingers.

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

Money is not a part of the Barter System. In fact, the Barter system is the system of exchanging goods and services with

goods and services. It bypasses the use or need of money between the involved parties. It is one of the oldest types of commerce.

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

According to the Census 2011, the population density recorded in Bihar was 1106 persons per square kilometre making it the most densely populated state. Bihar was the third most populous state in India.

The census is conducted every ten years and is conducted by the Office of the Registrar General and Census Commissioner of India, Ministry of Home Affairs, Government of India. The first census in India was conducted in 1872.

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

Carbohydrates are utilised by the human body in the form of glucose as this is the simplest form of sugar. Carbohydrates are one of the three primary macronutrients, along with proteins and fats that are an important source of energy for the human body. The process of digestion begins in the mouth and continues in the stomach and small intestine.

**86. Option (2) is correct.**

Zakir Hussain is a renowned tabla maestro who started playing tabla at the age of seven years. He has been conferred with Sangeet Natak Akademi award, Padma Shri, Padma Bhushan and Padma Vibhushan. He was the first Indian musician to be invited in 2016 by the then American President Barack Obama to attend the All-Star Global Concert held in the White House.

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

Mahatma Gandhi spent a year travelling around British India to know the people of India on the advice of Gopal Krishna Gokhale. Gandhi Ji returned to India in 1915 after becoming a barrister from South Africa. Gokhale was an Indian political

leader and social reformer. He was a mentor to Mahatma Gandhi and was referred to as his political guru. He also mentored Muhammad Ali Jinnah.

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

The fiscal deficit is the difference between the total revenue and total expenditure of a government in a financial year and this situation arises when expenditure is more than revenue. It is an indication of the total borrowings needed by the government.

**89. Option (3) is correct.**

The 86<sup>th</sup> Constitutional Amendment (2002) inserted Article 21A in the Indian Constitution which makes primary education compulsory and free for children from age six to fourteen years. With this India became the 135<sup>th</sup> country to provide free and compulsory education. This act ensures that education is provided to the economically weaker section of society. With this, education became a fundamental right and is protected by the Part III of the Indian constitution.

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

Slate is a soft and brittle sedimentary rock which is composed of fine-grained clay and silt-sized particles. It transforms into a metamorphic rock due to the changes in temperature, pressure, and often the introduction of fluids. The sediments from which shale is formed are compacted and undergo lithification, turning loose sediment into solid rock. The initial stage involves low-grade metamorphism followed by intermediate-grade Metamorphism (Phyllite Formation). This is followed by high-grade Metamorphism (Schist Formation) and finally highest-grade Metamorphism (Gneiss Formation). It transforms into the metamorphic rock slate due to changes in temperature, pressure and often introduction of liquids.

**STAFF SELECTION COMMISSION**  
**Multi Tasking (Non-Technical) Staff**

**SOLVED PAPER**

**(6<sup>th</sup> September 2023: Shift-2)**

**Time Allotted-** 90 Minutes

**Max marks-** 270

**Important Instructions:-**

- ⇒ This paper contains 90 questions which are divided into 4 sections and 2 sections each has 20 questions each and other 2 has 25 questions each.
  - ✓ General English
  - ✓ Numerical Aptitude
  - ✓ General Intelligence & Reasoning
  - ✓ General Awareness
- ⇒ There will be 3 marks for each correct answer and also there is no negative marking in General Intelligence & Reasoning and Numerical Aptitude sections. But in the General Awareness & General English sections, there is a negative marking of one mark for each wrong answer.
- ⇒ Each question is compulsory to attempt and there will be no negative marking for unattempted questions.

**General English**

1. Parts of the following sentence have been given as options. Select the option that contains an error.  
Existentialism has a reputation for being angst-ridden and gloomy mostly because of its emphasis on pondering the meaningless of existence.
  1. on pondering the meaningless of existence
  2. mostly because of its emphasis
  3. existentialism has a reputation
  4. for being angst-ridden and gloomy
2. Select the most appropriate option that can substitute the underlined segment in the given sentence.  
To preparing the vine for plant, it should be cut back to 2 ft.
  1. prepares in vine in plant
  2. prepare a vine in planting
  3. prepared the vine of plant
  4. prepare the vine for planting
3. Select the most appropriate ANTONYM of the word given in brackets to fill in the blank.  
The student provided her English teacher a short and \_\_\_\_\_ (incoherent) account of her journey to Shimla with her parents.
  1. humble
  2. lucid
  3. rough
  4. genuine
4. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.  
I want to/give you/an information about/the missing necklace.
  1. an information about
  2. the missing necklace
  3. give you
  4. i want to
5. Identify the most appropriate meaning of the given word.  
Ancient
  1. Antique
  2. Unworn
  3. Contemporary
  4. Recent
6. Select the most appropriate option that can substitute the underlined segment in the given sentence.  
They are sell their company's products to people.
  1. are sell the company
  2. are selling their company's
  3. was sell the company's
  4. is selling they company's
7. Select the most appropriate meaning of the underlined idiom.  
Mary is a ball of fire and is always engaged in something creative.
  1. An active and energetic person
  2. A dull and insipid person
  3. To be good and beneficial for someone
  4. A talkative person
8. Select the most appropriate idiom to fill in the blank.  
By living in a rural area with access to the city, she gets \_\_\_\_\_.
  1. the best of both worlds
  2. to keep an ear to the ground
  3. on cloud nine
  4. in for a penny in for a pound
9. Select the most appropriate option that can substitute the underlined segment in the given sentence.  
The cats food bowl was empty, so he meowed incessantly until his owner finally filled it with fresh kibble.
  1. The cats'
  2. A cat's
  3. A cats'
  4. The cat's
10. Select the most appropriate meaning of the given idiom.  
Get your act together
  1. To have patience
  2. To stay together
  3. To act in a play
  4. Get organised and do things better
11. Select the option that can be used as a one-word substitute for the given group of words.  
Unpleasant
  1. Nebulous
  2. Natal
  3. Negligible
  4. Nasty
12. The following sentence has been divided into four parts. Identify the part that contains an error.  
(A) The mother exclaimed/(B) when she saw her son/(C) stumble on the race track./(D) "Look, he fell!"
  1. B
  2. D
  3. C
  4. A
13. Select the most appropriate option that can rectify the underlined segment in the given sentence. If there is no need to rectify it, select 'no rectification needed'.  
The conductor said that it was the worse quake he ever knew.
  1. more bad
  2. bad
  3. no rectification needed
  4. worst

14. Select the most appropriate meaning of the underlined idiom in the following sentence.

After having invested so much time and energy into the project, we are now back to square one.

1. Not ready for the consequence
  2. In the same city
  3. Fighting with each other
  4. Having to start all over again
15. Select the option that can be used as a one-word substitute for the given group of words.

Killing of one's own father

1. Matricide
  2. Filicide
  3. Patricide
  4. Suicide
16. The sentence given below has spelling errors. Select the sentence without spelling errors.

Though we read and hear a lot on green initiative, we hardly tweak our routines to suite the larger picture.

1. Though we read and hear a lot on green initiatives, we hardly tweak our routines to suit the larger picture.
2. Throug we read and hear a lot on green initiatives, we hardly tweak our routines to suite the larger picture.
3. Though we read and hear a lot on green initiatives, we hardly tweek our routines to suite the larger picture.
4. Though we read and hear a lot on green inciatives, we hardly tweek our routines to suite the larger picture.

17. Select the most appropriate synonym of the bracketed word in the following sentence to fill in the blank.

The athlete's injury was a \_\_\_\_\_ (defeat) for the team's chances of winning the championship.

1. progression
  2. breakthrough
  3. stress
  4. setback
18. Select the INCORRECTLY spelt word.

1. Parallel
2. Recommend
3. Irresistable
4. Tomorrow

19. Select the correctly spelt word.

1. Millennium
2. Milennium
3. Millenum
4. Milenium

20. Select the most appropriate option that can substitute the underlined segment in the following sentence.

She proposed to write the life history of the famous poet.

1. novel
2. biography
3. mythology
4. autobiography

### Comprehension:

In the following passage, some words have been deleted. Read the passage carefully and select the most appropriate option to fill in each blank.

Democracy is a form of government where the power lies \_\_\_\_\_ (1) the people. It is based on the principles of equality, freedom and the rule of law. In a democratic society, \_\_\_\_\_ (2) have the right to participate in the decision-making process, \_\_\_\_\_ (3) directly or through elected representatives. Democracy also allows for the \_\_\_\_\_ (4) of individual rights and liberties. While democracy is not without its challenges, such as the need to balance competing interests and the risk of \_\_\_\_\_ (5) movements, it remains one of the most widely embraced forms of government around the world.

21. Select the most appropriate option to fill in blank no. 1.
  1. towards
  2. on
  3. by
  4. with
22. Select the most appropriate option to fill in blank no. 2.
  1. lawyers
  2. humans
  3. politicians
  4. citizens
23. Select the most appropriate option to fill in blank no. 3.
  1. either
  2. however
  3. neither
  4. also

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

1. delimitation
2. protection
3. diversion
4. proscription

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

1. marginal
2. elitist
3. populist
4. negligible

### General Intelligence & Reasoning

26. 21 is related to 86 following a certain logic. Following the same logic, 33 is related to 134. To which of the following is 25 related to, following the same logic?

1. 100
2. 103
3. 102
4. 101

27. If G means '−', A means '×', D means '÷', B means '+', then what will come in place of the question mark (?) in the following equation?

$$12 A 7 G 100 D 5 B 17 = ?$$

1. 74
2. 103
3. 81
4. 37

28. What should come in place of ? in the given series?

26 39 52 65 ? 91 104

1. 78
2. 79
3. 81
4. 80

29. In a certain code language, 'BLAME' is coded as 'CMBNF' and 'CHANGE' is coded as 'DIBOHF'. What is the code for 'DESERT' in the given code language?

1. EGTGSV
2. FHSGTV
3. EFTFSU
4. FGRFST

30. Read the given statement(s) and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statement(s).

**Statements:** Some dogs are bats. Some bats are cats

**Conclusions:**

- I. Some dogs are cats.
- II. Some cats are dogs.
1. Both conclusions (I) and (II) follows.
2. Only conclusion (II) follows.
3. Neither conclusion (I) nor (II) follows.
4. Only conclusion (I) follows.

31. Read the given statements and conclusions carefully. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. You have to decide which conclusion/s logically follow/s from the given statements.

**Statements:** Some paints are cats. All cats are dogs. Some dogs are bananas.

**Conclusion I:** Some paints are dogs.

**Conclusion II:** Some cats are bananas.

1. Neither conclusion (I) nor (II) follow.
2. Both conclusions (I) and (II) follow.
3. Only conclusion (I) follow.
4. Only conclusion (II) follow.

32. What should come in place of '?' in the given series?

7 28 91 280 ? 2548 7651

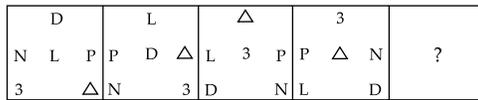
1. 823
2. 871
3. 861
4. 847

33. What will come in the place of the question mark (?) in the following equation, if '+' and '−' are interchanged and '×' and '÷' are interchanged?

$$3 \div 5 + 8 - 505 \times 5 = ?$$

1. 106
2. 102
3. 104
4. 108

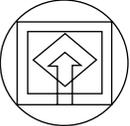
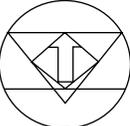
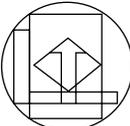
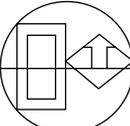
34. Which figure should replace the question mark (?) if the following figure series were to be continued?



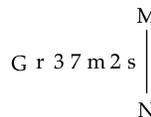
1.  2. 
3.  4. 

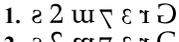
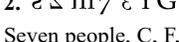
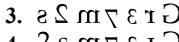
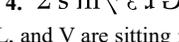
35. Select the option figure in which the given figure (X) is embedded as its part (rotation is NOT allowed).



1.  2. 
3.  4. 

36. What should come in place of '?' in the given series?  
11 39 123 375 1131 ?  
1. 3399      2. 3499      3. 3187      4. 3417
37. What should come in place of ? in the given series based on the English alphabetical order?  
ESP, CRN, AQL, YPJ, ?  
1. YMG      2. YNI      3. WOH      4. ZNG
38. Select the combination of letters that when sequentially placed in the blanks of the given series, will complete the series.  
A \_ AA \_ \_ AD \_ \_ DA  
1. AADDA      2. DDAAA      3. ADDAD      4. DAADD
39. Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



1.  2. 
3.  4. 
40. Seven people, C, F, D, K, O, L, and V are sitting in a straight line, facing south. V sits second to the right of F. Only three people sit to the right of O. K is an immediate neighbour of O and D. Only three people sit between L and V. F is not an immediate neighbour of L.  
Who sits to the extreme left of the line?  
1. C      2. F      3. V      4. D
41. The position of how many letters will remain unchanged if each of the letter in the word 'GRAPES' is arranged in alphabetical order?  
1. One      2. None      3. Four      4. Two

42. In a certain code language, 'WHAT' is coded as 5298 and 'THAN' is coded as 9826. What is the code for 'W' in the given code language?  
1. 8      2. 5      3. 2      4. 6
43. BJTI is related to EMWL in a certain way based on the English alphabetical order. In the same way, HDRL is related to KGUO. To which of the following is OCGM related to, following the same logic?  
1. RFIO      2. SEKO      3. RFJP      4. QEIR
44. 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)  
(14, 13, 32)  
(21, 13, 39)  
1. 15, 7, 18      2. 19, 12, 36      3. 5, 19, 88      4. 11, 14, 43
45. What should come in place of ? in the given series based on the English alphabetical order?  
NBX, MEW, LHV, KKV, ?  
1. HMS      2. JNT      3. IMR      4. HNS

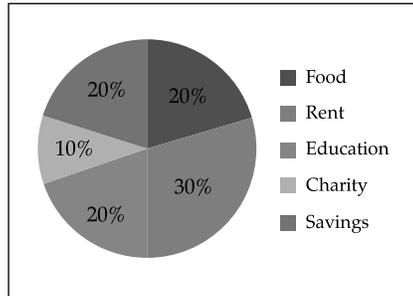
**Numerical Aptitude**

46. Pradeep is twice as good as Sandeep to complete a work. Working together, they can finish a piece of work in 28 days. In how many days can Pradeep alone finish the work?  
1. 46      2. 40      3. 44      4. 42
47. A table showing the percentages of the total population of a town by age groups for the year 2016 is given below.

Age Group (in years)	Percent
up to 15	35
16–30	18.5
30–40	12.5
40–50	25.77
51 and above	8.23

- There are 2200 billion people below 40 years. How many billion people are in the age group 40–50?  
1. 417      2. 1167      3. 274      4. 859
48. Two containers of equal capacity are full of a mixture of milk and water. In the first container, the ratio of milk to water is 3 : 11 and in the second container the ratio is 9 : 11. If both the mixtures are mixed in a container, what is the resulting ratio of milk to water?  
1. 87 : 197      2. 21 : 87      3. 93 : 187      4. 93 : 179
49. In ABC club, 88% members are men and 12% members are women. If the average age of the men is 25 years and that of the women is 50 years, then what is the average age of all the members?  
1. 27      2. 28      3. 26      4. 29
50. A is 25% more than B, and B is 40% less than C. If C is 20% more than D, then by what percentage is A less than D?  
1. 12%      2. 5%      3. 15%      4. 10%

51. The following pie chart gives the monthly budget of a family on the heads - Food, Rent, Education, Charity and Savings. The total income of the family is ₹ 9,000. Study the pie chart carefully and answer the question.



What is the total expenditure on the heads - rent, savings, food and education?

1. ₹ 8,200      2. ₹ 8,100      3. ₹ 6,300      4. ₹ 6,500
52. Two tankers contain 850 litres and 680 litres of oil. Find the maximum capacity of a container which can measure the oil of both tankers when used, an exact number of times.  
1. 425 litres      2. 680 litres      3. 340 litres      4. 170 litres
53. Find the mean proportional between 56 and 14.  
1. 42      2. 14      3. 35      4. 28
54. A and B can finish a work in  $5\frac{1}{3}$  days. A alone can finish this work in 8 days. A and B worked on alternate days (starting with B) to finish this work. In how many days will the work be finished?  
1. 6 days      3. 11 days  
2.  $11\frac{1}{3}$  days      4.  $6\frac{1}{3}$  days
55. The selling price of 10 articles is equal to the cost price of 13 articles. What is the gain percentage?  
1. 30%      2. 25%      3. 20%      4. 40%
56. The simple interest on a certain sum for 4 years at the rate of 15% p.a. is ₹ 4,500 less than the simple interest on the same sum for 6 years at the same rate of interest. Find the sum.  
1. ₹ 12,000      2. ₹ 13,000      3. ₹ 15,000      4. ₹ 14,000
57. The average of four consecutive odd numbers is 58. What is the lowest number?  
1. 51      2. 57      3. 55      4. 53
58. At what rate per an annum will a sum of ₹ 6,400 fetch a compound interest (Compounded annually) of ₹ 1,344 in 2 years?  
1. 10%      2. 8%      3. 12%      4. 5%
59. If  $p : q = 5 : 2$ , then  $p^2 - q^2 : p^2 + q^2 = ?$   
1. 29 : 21      2. 4 : 3      3. 3 : 4      4. 21 : 29
60. Simplify the following.  
 $15 \div 5$  of  $3 \times 4 + 8 \div 12$  of  $4 \times 12 - 4 \div 5 \times 20$   
1.  $\frac{20}{3}$       2. -10      3. 12      4. 1
61. A man takes 30 minutes to cover a certain distance at the speed of 8 km/h. If he walks at a speed of 16 km/h, he covers the same distance in:  
1. 15 minutes      3. 25 minutes  
2. 30 minutes      4. 20 minutes
62. Metallic spheres of radii 6 cm, 8 cm and 10 cm, respectively, are melted to form a single solid sphere. Find the radius of the resulting sphere (in cm).  
1. 18      2. 12      3. 24      4. 16

63. Each edge of a cube is increased by 30%. What will be the increase in its surface area?  
1. 90%      2. 60%      3. 30%      4. 69%
64. If there is a profit of 25% on the cost price of an article, the percentage of profit calculated on its selling price will be:  
1. 20%      2. 60%      3. 18%      4. 22%
65. Trains A and B start at the same time. Train A travels at the speed of 50 km/h from station P to station Q and train B travels at the speed of 70 km/h from station Q to station P. They cross each other after 1 hour 20 minutes. What is the distance (in km) between station P and station Q?  
1. 180      2. 150      3. 140      4. 160

#### General Awareness

66. Who inaugurated the 2023 World Squash Championships that was held in India?  
1. KN Nehru      3. EV Velu  
2. K Pomudi      4. Udhayanidhi Stalin
67. Who among the following is primarily regarded as a maestro of Hindustani classical music?  
1. Bade Ghulam Ali Khan  
2. Mavelikkara Prabhakara Varma  
3. Sampagodu Vighnaraja  
4. Sai Vignesh
68. What is 'Mahawat' in India?  
1. Cold waves during the winter season  
2. Cloud burst during the monsoon season  
3. Cyclonic rainfall during the winter season  
4. Hot and dry winds during the summer season
69. Who among the following is the author of the book 'Selection Day'?  
1. Vikram Seth      3. Chetan Bhagat  
2. Aravind Adiga      4. Amish Tripathi
70. Which Article of the Constitution of India deals with the organization of village panchayat?  
1. Article 38      3. Article 40  
2. Article 45      4. Article 36
71. Bharati Shivaji and Kanak Rele are exponents of \_\_\_\_\_.  
1. Manipuri      3. Kathak  
2. Mohiniyattam      4. Odissi
72. Which is the most common ore of oxidised mercury that occurs in granular crusts or veins associated with volcanic activity and hot springs?  
1. Diaspore      3. Cinnabar  
2. Siderite      4. Corundum
73. Women's World Boxing Championship 2023 was held in which city in India?  
1. Goa      3. New Delhi  
2. Punjab      4. Gujarat
74. Who is regarded as the 'Mother of Indian Revolution'?  
1. Annie Besant      3. Madame Cama  
2. Usha Mehta      4. Kasturba Gandhi
75. Which microscopic, single-celled photosynthetic organisms are known as the primary producers of the ocean - the organisms that form the base of the aquatic food chains?  
1. Phytoplankton      3. Bacterioplankton  
2. Zooplankton      4. Virioplankton
76. Which of the following novels is correctly paired with its author?  
1. The Shadow Lines - RK Narayan  
2. Malgudi Days - Khushwant Singh  
3. The Namesake - Jhumpa Lahiri  
4. Train to Pakistan - Amitav Ghosh



(information) does not take an indefinite article before it. Thus it will be preceded by 'a piece of information' or 'some information'.

5. **Option (1) is correct.**  
The word 'ancient' means 'belonging to the very distant past and no longer in existence.' Thus, it is synonymous with 'antique' (very old).
6. **Option (2) is correct.**  
The correct sentence is: They are selling their company's products to people. The part 'are sell their company's' will be substituted by 'are selling their company's' because the auxiliary verb(are) always takes -ing form of verb.
7. **Option (1) is correct.**  
The idiom 'a ball of fire' signifies 'a person full of energy and enthusiasm'. Any person who is always engaged in something creative is, 'an active and energetic person'.
8. **Option (1) is correct.**  
The idiom 'the best of both worlds' implies 'a situation in which you can enjoy the advantages of two very different things at the same time'; 'to keep an ear to the ground' means 'be well informed about events and trends.' The idiom 'on cloud nine' implies 'extremely happy'; 'in for a penny in for a pound' implies that a person should finish what he or she has started to do even though it may be difficult. The sentence claims that the man lives in a rural area with access to the city connotes that he enjoys the benefits of two different things at the same time.
9. **Option (4) is correct.**  
The correct sentence is: The cat's food bowl was empty, so he meowed incessantly until his owner finally filled it with fresh kibble. The part 'The cats' will be substituted by 'the cat's' to demonstrate the state of possession' (indicated by the use of apostrophes).
10. **Option (4) is correct.**  
The idiom 'get your act together' means 'start to behave more appropriately or effectively; get organised.'
11. **Option (4) is correct.**  
'Unpleasant' means 'nasty' (filthy, foul). 'Nebulous' means 'unclear'.
12. **Option (2) is correct.**  
The correct sentence is: The mother exclaimed when she saw her son stumble on the race track, "Look, he falls!". Here the part "'Look, he falls!" will be replaced by "'Look, he falls!'" This is because the event occurs in the present, so the verb will be in simple present tense (falls). Hence part (D) has the error.
13. **Option (4) is correct.**  
The correct sentence is: The conductor said that it was the worst quake he ever knew. Here, 'worse' will be replaced by 'worst'. The adjective 'worse' is in comparative degree, but there is no comparison being made here. The part demands an adjective in superlative degree, thus, 'worst' is the correct choice.
14. **Option (4) is correct.**  
The idiom 'back to square one' means 'back to where one started, with no progress having been made.' The sentence states that after having invested time and energy into the project, no progress was made.
15. **Option (3) is correct.**  
Killing of one's own father is called patricide; 'matricide' is 'the killing of one's mother.' Filicide is the deliberate act of a parent killing their own child. Suicide is the act or an instance of taking one's own life voluntarily and intentionally.
16. **Option (1) is correct.**  
The correct sentence is: Though we read and hear a lot on green initiatives, we hardly tweak our routines to suit the larger picture. Option (2) has error in 'Throug' and 'suite';

option (3) has error in 'Throug' and 'tweek', while option (4) has errors in 'suite'; and 'iniciatives'.

17. **Option (4) is correct.**  
The correct sentence is: The athlete's injury was a setback for the team's chances of winning the championship. The word 'defeat' means 'downfall'.
18. **Option (3) is correct.**  
Irresistible. It will be spelt as 'Irresistible', meaning tempting.
19. **Option (1) is correct.**  
Millennium. Other options have incorrect spellings.
20. **Option (2) is correct.**  
The correct sentence is: Biography means an account of someone's life written by someone else. Mythology means very old stories and the beliefs contained in them. Autobiography implies the story of a person's life written by that person.
21. **Option (4) is correct.**  
The correct sentence is: Democracy is a form of government where the power lies with the people. 'Lies with' means be the responsibility or fault of a particular person.
22. **Option (4) is correct.**  
The correct sentence is: In a democratic society, citizens have the right to participate in the decision-making process. The meaning of citizen is a native or naturalised person who owes allegiance to a government and is entitled to protection from it. Since the sentence refers to people of a country, thus, 'citizen' is the appropriate word.
23. **Option (1) is correct.**  
The correct sentence is: In a democratic society, citizens have the right to participate in the decision-making process either directly or through elected representatives. The context gives an option- right to participate in the decision-making process directly or through elected representatives. Therefore, the use of conjunction 'either...or' is correct.
24. **Option (2) is correct.**  
The correct sentence is: Democracy also allows for the protection of individual rights and liberties. The passage highlights the features and benefits of a democracy, and this form of government protects/secures individual rights and liberties.
25. **Option (3) is correct.**  
The correct sentence is: While democracy is not without its challenges, such as the need to balance competing interests and the risk of populist movements. Populist movements refer to political ideas and activities that are intended to get the support of ordinary people. 'Marginal' and 'negligible' movements are incorrect; while 'elitist' refers to some things controlled or owned only by the richest or best educated people. But this is contrary to the ideologies of a democracy.
26. **Option (3) is correct.**  
Given that: 21 is related to 86 and 33 is related to 134  
The pattern followed here is:  
 $(1^{\text{st}} \text{ term} \times 4) + 2 = 2^{\text{nd}} \text{ term}$   
So,  
 $(21 \times 4) + 2 \Rightarrow 84 + 2 = 86$   
And  
 $(33 \times 4) + 2 \Rightarrow 132 + 2 = 134$   
Similarly,  
 $(25 \times 4) + 2 \Rightarrow 100 + 2 = 102$   
Hence, 25 is related to 102.
27. **Option (3) is correct.**  
Given series: 12 A 7 G 100 D 5 B 17 = ?  
After putting the signs as per question, we get:  
 $12 \times 7 - 100 \div 5 + 17$

Now, according to the BODMAS rule,  
 $\Rightarrow 12 \times 7 - 20 + 17 \Rightarrow 84 - 20 + 17$   
 $\Rightarrow 101 - 20 = 81$   
 Hence, 81 is the correct answer.

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

Given that: 26 39 52 65 ? 91 104  
 The pattern followed here is:  
 (First approach)

$$1^{st} \text{ term} + 13 = 2^{nd} \text{ term}$$

So,

- $26 + 13 = 39$
- $39 + 13 = 52$
- $52 + 13 = 65$
- $65 + 13 = 78$
- $78 + 13 = 91$
- $91 + 13 = 104$

(Second approach)

These are multiples of 13

- $13 \times 2 = 26$
- $13 \times 3 = 39$
- $13 \times 4 = 52$
- $13 \times 5 = 65$
- $13 \times 6 = 78$
- $13 \times 7 = 91$
- $13 \times 8 = 104$

Hence, 78 is the correct answer.

**29. Option (3) is correct.**

Given that:  
 BLAME is coded as CMBNF  
 The pattern followed here is:

- B        +1        C
- L        +1        M
- A        +1        B
- M        +1        N
- E        +1        F

And, CHANGE is coded as DIBOHF:

- C        +1        D
- H        +1        I
- A        +1        B
- N        +1        O
- G        +1        H
- E        +1        F

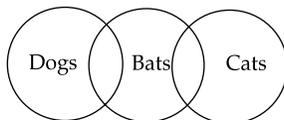
Similarly,

- D        +1        E
- E        +1        F
- S        +1        T
- E        +1        F
- R        +1        S
- T        +1        U

Hence, DESERT will be coded as EFTFSU.

**30. Option (3) is correct.**

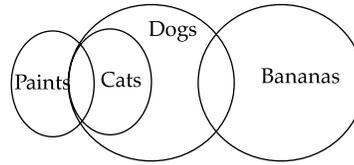
As per the given statements, following venn diagram can be made:



Both the conclusions are not definite as per the given information. Hence, neither conclusion I nor II follows.

**31. Option (3) is correct.**

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



Conclusion I - Some paints are dogs.

Some paints are cats and all cats are dogs, which implies some paints are dogs. So, this conclusion follows.

Conclusion II - Some cats are bananas.

All cats are dogs and some dogs are bananas, which implies some cats could be banana but it is not definite. So, this conclusion doesn't follow.

Hence, only conclusion I follows.

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

Given that: 7 28 91 280 ? 2548 7651

The pattern followed here is:

- $(1^{st} \text{ term} \times 3) + 7 = 2^{nd} \text{ term}$
- $(7 \times 3) + 7 = 28$
- $(28 \times 3) + 7 = 91$
- $(91 \times 3) + 7 = 280$
- $(280 \times 3) + 7 = 847$
- $(847 \times 3) + 7 = 2548$
- $(2548 \times 3) + 7 = 7651$

Hence, 847 is the missing number.

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

Given equation:  $3 \div 5 + 8 - 505 \times 5 = ?$

After interchanging the signs as per question, we get  
 $3 \times 5 - 8 + 505 \div 5$

Now, according to the BODMAS rule,

$$\Rightarrow 3 \times 5 - 8 + 101 \Rightarrow 15 - 8 + 101 \Rightarrow 116 - 8 = 108$$

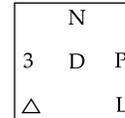
Hence, 108 is the correct answer.

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

Given figure:

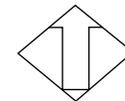
D	L	△	3	
N	L	P	P	△
3	△	N	3	D

As per the pattern followed and symmetry, the required image is:

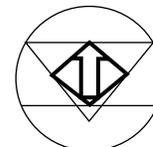


**35. Option (2) is correct.**

Given figure:



This image is embedded in the figure of option 2 as highlighted below.



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

Given that: 11 39 123 375 1131 ?

The pattern followed here is:

$$(1^{\text{st}} \text{ term} \times 3) + 6 = 2^{\text{nd}} \text{ term}$$

$$(11 \times 3) + 6 = 39$$

$$(39 \times 3) + 6 = 123$$

$$(123 \times 3) + 6 = 375$$

$$(375 \times 3) + 6 = 1131$$

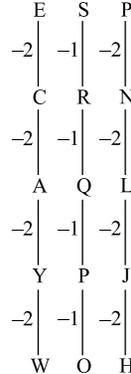
$$(1131 \times 3) + 6 = 3399$$

Hence, 3399 is the missing number.

**37. Option (3) is correct.**

Given that: ESP, CRN, AQL, YPJ, ?

The pattern followed here is:



Hence, WOH is the correct answer.

**38. Option (2) is correct.**

Given series: A\_AA\_AD\_DA

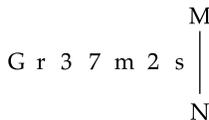
Upon inserting alphabets from option (2) sequentially, we get

ADAADAADAADA

Hence, it forms a logical series.

**39. Option (3) is correct.**

Given image:



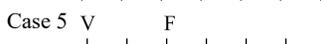
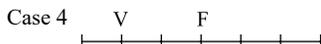
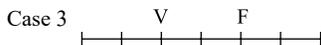
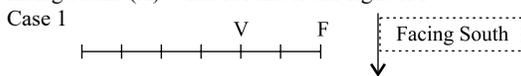
In the mirror image, objects on the left appears in right and object on the right appears in the left. Hence, the required image is:

z 2 m 7 ε r 3

**40. Option (2) is correct.**

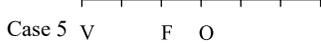
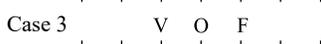
Given that: C, F, D, K, O, L and V are sitting in a straight line,

facing south. (A) V sits second to the right of F



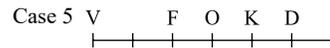
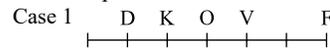
(B) Only three people sit to the right of O

Which implies that cases 2 and 4 are eliminated.



(C) K is the immediate neighbour of O and D

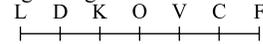
Which implies that case 3 is eliminated.



(D) Only three people sit between Land V

Which implies that case 5 is eliminated.

So, the final sitting arrangement will be as follows:



Hence, F sits to the extreme left of the line.

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

Given word: GRAPES

When we arrange this word alphabetically, we get

AEGPRS

Which means 2 letters 'P' and 'S' will remain unchanged at these positions.

Hence, two is the correct answer.

**42. Option (2) is correct.**

Given that:

WHAT is coded as 5298.

THAN is coded as 9826.

If we compare both of the words we get,

The codes for the similar alphabets in both the words, i.e. H, A, T are 9, 8, 2 (in random order), indicating that the only letter remaining in the word WHAT is 'W.'

Therefore, there is only 1 digit left for 'W' which is 5.

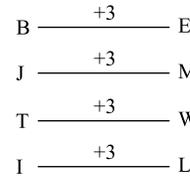
Hence, 5 is the correct answer.

**43. Option (3) is correct.**

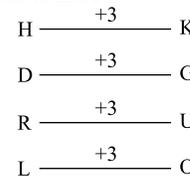
Given that:

BJTI is related to EMWL.

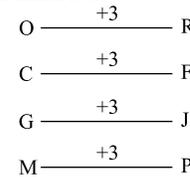
The pattern followed here is:



And, HDRL is related to KGUO:



Similarly, OCGM is related to:



Hence, RFJP is the correct answer.

**44. Option (2) is correct.**

Given that:

(14, 13, 32)

(21, 13, 39)

The pattern followed here is:

1<sup>st</sup> term + 2<sup>nd</sup> term + 5 = 3<sup>rd</sup> term

Upon checking option one by one,

1. 15, 7, 18

15 + 7 + 5 = 27 (Incorrect)

2. 19, 12, 36

$$19 + 12 + 5 = 36 \text{ (Correct)}$$

3. 5, 19, 88

$$5 + 19 + 5 = 29 \text{ (Incorrect)}$$

4. 11, 14, 43

$$11 + 14 + 5 = 30 \text{ (Incorrect)}$$

Hence, 19, 12, 36 is the correct answer.

45. **Option (2) is correct.**

Given pairs: NBX, MEW, LHV, KKV, ?

The pattern followed here is:

$$\begin{array}{ccc} \text{N} & \text{B} & \text{X} \\ -1 & +3 & -1 \\ \text{M} & \text{E} & \text{W} \\ -1 & +3 & -1 \\ \text{L} & \text{H} & \text{V} \\ -1 & +3 & -1 \\ \text{K} & \text{K} & \text{U} \\ -1 & +3 & -1 \\ \text{J} & \text{N} & \text{T} \end{array}$$

Hence, JNT is the correct answer.

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

Let Pradeep completes the work in "x" days.

∴ Sandeep completes the same work in "2x" days.

According to the question

$$\frac{1}{x} + \frac{1}{2x} = \frac{1}{28} \Rightarrow \frac{3}{2x} = \frac{1}{28} \Rightarrow x = 42$$

∴ Pradeep will complete the work in 42 days.

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

Total percentage of people below 40 years  
= (35 + 18.5 + 12.5) = 66%

Let the total population (in billion) = x

$$\therefore \frac{66}{100} \times x = 2200 \Rightarrow x = \frac{10000}{3}$$

Number of people in age group 40–50 (in billion)

$$= \frac{25.77}{100} \times \frac{10000}{3} = 859$$

48. **Option (3) is correct.**

Let the capacity of each container = 140 units (LCM of 14, 20)

$$\text{Milk in first container} = \frac{3}{3+11} \times 140 = 30 \text{ units}$$

$$\text{Milk in second container} = \frac{9}{9+11} \times 140 = 63 \text{ units}$$

$$\begin{aligned} \therefore \text{Required ratio} &= \frac{30+63}{(140-30)+(140-63)} \\ &= \frac{93}{187} = 93 : 187 \end{aligned}$$

49. **Option (2) is correct.**

Let there are 100 members in the club

∴ Sum of ages of all men in the club = 88 × 25 = 2200 years

Sum of ages of all women in the club = 12 × 50 = 600 years

$$\text{Average age of all the members} = \frac{2200+600}{100} = 28 \text{ years}$$

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

Let D is = 100

$$\therefore C \text{ is} = \frac{100+20}{100} \times 100 = 120$$

$$B \text{ is} = \frac{100-40}{100} \times 120 = 72$$

$$A \text{ is} = \frac{100+25}{100} \times 72 = 90$$

Clearly A (90) is 10% less than D (100).

51. **Option (2) is correct.**

Total percentage of expenditure on heads – rent, savings, food and education = (20 + 30 + 20 + 20) = 90%

$$\begin{aligned} \therefore \text{Total expenditure on above heads} \\ &= \frac{90}{100} \times 9000 = ₹8100 \end{aligned}$$

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

The required capacity of container = L.C.M of 850 & 680  
= 170 litres.

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

Let the mean proportion = x

$$\therefore \frac{56}{x} = \frac{x}{14} \quad [56 : x : x : 14]$$

$$\Rightarrow x^2 = 56 \times 14 = 14 \times 14 \times 4 \Rightarrow x = 28$$

54. **Option (3) is correct.**

A and B can finish the work in  $5\frac{1}{3}$  days

$$\text{One day work of A and B} = \frac{1}{5\frac{1}{3}} = \frac{1}{\frac{16}{3}} = \frac{3}{16} \text{ th part}$$

One day work of A =  $\frac{1}{8}$  th part

$$\text{One day work of B} = \frac{3}{16} - \frac{1}{8} = \frac{3-2}{16} = \frac{1}{16} \text{ part}$$

Work done in 10 days by A and B on alternate days with B starting =  $\left(\frac{1}{16} \times 5\right) + \left(\frac{1}{8} \times 5\right) \Rightarrow \frac{5}{16} + \frac{5}{8} = \frac{5+10}{16} = \frac{15}{16}$  part

$$\text{Remaining work} = 1 - \frac{15}{16} = \frac{1}{16} \text{ part}$$

Since, B can do  $\frac{1}{16}$  th part in one day.

Hence, B will finish the work on 11<sup>th</sup> day.

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

∴ Selling price of 10 articles (m) = cost price of 13 articles (n)

$$\begin{aligned} \therefore \text{Gain/Profit percentage} &= \left[\frac{n-m}{m}\right] \times 100 \\ &= \left[\frac{13-10}{10}\right] \times 100 = 30\% \end{aligned}$$

56. **Option (3) is correct.**

Let the required sum = ₹ x

Simple interest on sum in 4 years is ₹ 4500 less than the simple interest on sum in 6 years.

∴ Simple interest in 2 years on same sum = ₹ 4500

According to the question

$$\frac{x \times 15 \times 2}{100} = 4500 \Rightarrow x = ₹ 15000$$

57. **Option (3) is correct.**

Let the first odd number = x

∴ 4 consecutive odd numbers are x, x + 2, x + 4, x + 6

$$\begin{aligned} \text{Average of 4 odd numbers} &= \frac{x+x+2+x+4+x+6}{4} \\ &= x+3 \end{aligned}$$

According to the question

$$x + 3 = 58 \Rightarrow x = 55$$

So, the lowest odd number is 55.

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

Principal amount, P = ₹ 6400

Time, n = 2 years

Compound interest, C.I. = ₹ 1344

Let rate of compound interest = r%

$$\text{C.I.} = P \left[ 1 + \frac{r}{100} \right]^n - P$$

$$\Rightarrow 1344 = 6400 \left[ 1 + \frac{r}{100} \right]^2 - 6400$$

$$\Rightarrow 1 + \frac{r}{100} = \sqrt{\frac{7744}{6400}} = \frac{88}{80}$$

$$\Rightarrow \frac{r}{100} = \frac{88}{80} - 1 = \frac{8}{80} \Rightarrow r = 10$$

∴ Rate of compound interest = 10%

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

$$\therefore \frac{P}{q} = \frac{5}{2}$$

Let P = 5 & q = 2

$$\therefore \frac{P^2 - q^2}{P^2 + q^2} = \frac{5^2 - 2^2}{5^2 + 2^2} = \frac{21}{29} = 21 : 29$$

**60. Option (2) is correct.**

15 ÷ 5 of 3 × 4 + 8 ÷ 12 of 4 × 12 - 4 5 × 20

Use BODMAS to solve the expression.

$$\begin{aligned} &= 15 \div 5 \times 4 + 8 \div 48 \times 12 - \frac{4}{5} \times 20 \\ &= \frac{15}{5} \times 4 + \frac{8}{48} \times 12 - 16 = 4 + 2 - 16 = -10 \end{aligned}$$

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

Distance covered by a man with 8 km/h in 30 minutes

$$= 8 \times \frac{1}{2} = 4 \text{ km}$$

4 km will be covered with 16 km/h in  $\frac{4}{16}$  hour

$$= \frac{1}{4} \text{ hour} = \frac{1}{4} \times 60 \text{ minutes} = 15 \text{ minutes}$$

**62. Option (2) is correct.**

$$\text{Volume of sphere} = \frac{4}{3} \pi r^3 \quad (\text{where } r \text{ is radius})$$

Let radius of resulting sphere = r cm

Volume of 3 given sphere = Volume of resulting sphere

$$\text{i.e. } \frac{4}{3} \times \pi \times 6^3 + \frac{4}{3} \times \pi \times 8^3 + \frac{4}{3} \times \pi \times 10^3 = \frac{4}{3} \times \pi r^3$$

$$6^3 + 8^3 + 10^3 = r^3 \Rightarrow r^3 = 216 + 512 + 1000$$

$$\Rightarrow r^3 = 1728 \Rightarrow r = \sqrt[3]{1728} = 12$$

∴ Required radius = 12 cm

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

Let the original edge of cube = a units

∴ the original surface area of cube  $6a^2$

$$\text{New edge of cube} = \frac{130}{100} a = \frac{13}{10} a$$

$$\therefore \text{New surface area of cube} = 6 \times \left( \frac{13}{10} a \right)^2$$

$$\text{Increase in surface area} = \left[ \frac{6 \times \frac{169}{100} a^2 - 6a^2}{6a^2} \right] \times 100 = 69\%$$

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

Let the cost price of an article = ₹100

$$\therefore \text{Selling price of an article} = \frac{125}{100} \times 100 = ₹125$$

New profit percentage based on selling price

$$= \frac{25}{125} \times 100 = 20\%$$

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

The relative speed of both the trains = (50 + 70) km/h = 120 km/h

$$\text{Time to cross each other} = 1 \text{ hour } 20 \text{ min} = \frac{4}{3} \text{ h}$$

$$\therefore \text{Distance between the stations} = 120 \times \frac{4}{3} = 160 \text{ km}$$

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

The 2023 World Squash Championship was held in Chennai, Tamil Nadu. It was inaugurated by Udhayanidhi Stalin, minister for Youth Welfare and Sports Development of Tamil Nadu. There were eight participating countries in the championship namely- Hong Kong, India, Japan, Malaysia, Egypt, South Africa, Australia, and Colombia. Egypt won the championship by beating Malaysia 2-1 in the final.

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

Bade Ghulam Ali Khan is known as the maestro of Hindustani Classical Music. He was an Indian vocalist from Patiala Gharana. He worked under the pen name of Sabrang and was trained by his father Ali Baksh Khan and Ustad Bade Inayat Khan. He was honoured with Sangeet Natak Academic Award, Sangeet Natak Akademi fellow and Padma Bhushan.

**68. Option (3) is correct.**

Mahawat is the total amount of rain in the winter season, which is caused by the western cyclonic disturbances in the north and north-western parts of India.

**69. Option (2) is correct.**

Books	Author
A Suitable Boy, The Golden Gate, and An Equal Music	Vikram Seth
The White Tiger, Last Man in Tower, Selection Day	Aravind Adiga
Five Point Someone, The Story of my Marriage, The Three mistakes of my Life, 400 days, One Arranged Murder	Chetan Bhagat
The Shiva Trilogy, Immortal India, Ram Chandra Series, Indic Chronicles	Amish Tripathi

**70. Option (3) is correct.**

Article 40 of the Indian constitution deals with the organisation of panchayats in villages which states that the state shall undertake necessary steps to organise village panchayats. The state shall furnish the village panchayats with some powers

and authority as may be necessary to enable them to function as units of self-government.

Article 38 of the Indian constitution says that the state shall strive to promote the welfare of the people by securing and protecting as effectively as it may a social order in which justice, social, economic and political, shall inform all the institutions of the national life.

Article 45 of the Indian constitution provides for free and compulsory education for children until they complete the age of fourteen years.

Article 36 of the Indian constitution defines the 'state.'

**71. Option (2) is correct.**

Bharati Shivaji and Kanak Rele are exponents of Mohiniyattam. Mohiniyattam is the dance of Mohini, who is considered to be an incarnation of Lord Vishnu. The reference of this dance form can be found in Vyavaharamala written in 1709 by Mazhamagalum Narayanan Namputiri. It is a Lasya type of dance that showcases a more graceful, gentle and feminine form of dancing.

Bharati Shivaji was a choreographer, author and dancer. She was awarded with Padma Shri, the Sangeet Natak Akademi Award, and Sahitya Kala Parishad. Kanak Rele was an Indian choreographer and dancer. She passed away in February 2023.

**72. Option (3) is correct.**

Cinnabar is an ore of Mercury which is bright red to reddish-brown in colour. Its formula is HgS. It is used for pigmentation in traditional medicine and cosmetics. In its natural form, the ore is toxic for human consumption due to the presence of Mercury.

Diaspore is an ore of aluminium. Chemically, it is an Aluminium Hydroxide Oxide mineral. Its colour may vary from white to grey, yellow, brown, or even pink. It is most commonly used as a gemstone.

Siderite is an ore of iron which is used for the production of steel. It consists of 48% iron and its color ranges from yellow to dark brown or black.

Corundum is a naturally transparent crystalline form of Aluminium oxide. It is a rock-forming mineral.

**73. Option (3) is correct.**

The Women Boxing Championship 2023 was held in New Delhi from March 15 - 26, 2023. The maximum number of medals were won by India. IBA is the International Boxing Association which is headquartered in Lausanne, Switzerland. The President of IBA is Umar Kremlev.

**74. Option (3) is correct.**

Madam Bhikaji Cama is known as 'The Mother of the Indian Revolution.' She was a prominent figure in the Indian freedom movement and was the first Indian to unfurl a precursor of the Indian National Flag in a foreign country- Stuttgart, Germany. She was an advocate of women's rights.

Annie Besant was a British Socialist, women's rights activist, theosophist, educationist, and orator. She was the first woman President of the Indian National Congress and headed the Calcutta session of INC in 1917.

Kasturbha Gandhi was an Indian political activist and wife of Mahatma Gandhi. She participated in various civil disobedience and nonviolent protest movements alongside him. She was a strong advocate for women's rights.

Usha Mehta was a freedom fighter in India and is famously known for running 'an underground radio station' during the Quit India movement. It was also called as 'Secret Congress Radio.'

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

Phytoplankton are autotrophic organisms that are single-celled organisms. They form the base of aquatic food chains and are not visible to the naked eye. These obtain energy through the process of photosynthesis.

Zooplankton are microscopic aquatic organisms such as protozoans, jellyfish larvae, and larval stages of larger marine animals like fish. They are generally found near the surface of water as they are weak swimmers and tend to drift along with the water current.

**76. Option (3) is correct.**

Novel's Name	Author's Name
The Shadow Lines	Amitav Ghosh
Malgudi Days	R.K. Narayan
The Namesake	Jhumpa Lahiri
Train to Pakistan	Khushwant Singh

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

The Green Channel service is one of the communication channels of the Indian Postal Service. In this, green-coloured mailboxes are placed at the post offices in the large and metro cities. The letters inside these mailboxes are meant for local delivery within the same city or its nearby areas. It is the fastest mail option within the city. The Indian Postal Service has introduced six communication channels to facilitate faster communication from person to person at different places. These channels are - Rajdhani Channel, Metro Channel, Green Channel, Business Channel, Bulk Channel, and Periodical Channel.

Union Minister of Communications - Ashwini Vaishnav.

**78. Option (3) is correct.**

Under the 'Ujjwal Bharat, Ujjwal Bhavishya - Power @2047', PM Narendra Modi inaugurated the 100 MW Ramagundam Floating Solar Project in Telangana. It is India's largest floating solar PV project with 4.5 lakh 'Made in India' solar PV modules.

'Ujjwal Bharat Ujjwal Bhavishya' focuses on the transformation in the power sector achieved in the last eight years. It was organised across the country as part of the ongoing 'Azadi Ka Amrit Mahotsav'. It is an initiative by the Ministry of Power and Ministry of New and Renewable Energy and all Power CPSEs and State DISCOMs. The celebration showcases the achievements in India's power sector through short films made by various Power CPSEs, through Nuked Natakas based on electrification schemes and their benefits and also cultural programmes. The district administration, village Headmen and localities are fully involved in the preparation.

**79. Option (2) is correct.**

The Strait of Gibraltar is a narrow waterway that separates Southern Spain in Europe from northern Morocco in Africa. It connects the Atlantic Ocean with the Mediterranean Sea and is one of the most strategically and economically significant waterways in the world. It is 900 metres deep.

The Bosphorus or Bosphorus Strait is a natural strait connecting the Black Sea and the Sea of Marmara. It is situated in Istanbul, Turkey. It forms a natural boundary and is 31 km in length and 700m in width.

The Dardanelles Strait or Strait of Gallipoli is a natural waterway connecting the Aegean Sea and the Mediterranean Sea. It is located to the south of the Bosphorus Strait and Istanbul and is 61 km in length and 1.2 km in width.

The Strait of Malacca connects the South China Sea and the Indian Ocean while separating the Malay Peninsula from Sumatra. In fact, it forms the shortest route between the Pacific Ocean and the Indian Ocean. It plays an important role in the global trade and energy transportation.

**80. Option (2) is correct.**

Pandit Birju Maharaj was an Indian composer, singer, and dancer who practised Kathak dance in India. He was an

exponent of the Lucknow 'Kalka-Bindadin' Gharana. He was a vocalist of Hindustani classical music and was honoured with Padma Vibhushan. He passed away at the age of 83. Kathak is the classical dance of Uttar Pradesh and is one of the eight major forms of Indian classical dance.

**81. Option (3) is correct.**

MFI stands for Micro-Finance Institutions. These provide targeted financial services to low-income individuals and micro-entrepreneurs enabling financial inclusion. MFIs provide small loans, savings accounts, and insurance for individuals who typically lack access to traditional banking services.

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

Personal income is the sum total of all the earnings and revenue an individual has received from all the sources in a given period of time. It is often reported before taxes and other deductions. Transfer payments are the payments or incomes for which no goods or services are being paid for. These include subsidy or benefit payments. These type of payments usually redistribute the money to the strata that require the payment. These are transferred into government accounts as these are methods to achieve social goals such as Medicare, welfare programs, subsidies etc. These are not part of national income as this is a one-sided payment.

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

Ishwar Chandra Vidyasagar was a prominent Indian social reformer and educator. He was a key figure in the Bengal Renaissance during the 19th century. He is considered as the 'Father of Bengali Prose.' He was instrumental in establishing schools for the girl child. He had an important role in the passing of the Widow Remarriage Act of 1856, which allowed Hindu widows to remarry. He was involved in various philanthropic activities, such as relief work during famines and efforts to provide aid to the needy.

**84. Option (2) is correct.**

Bharhut Stupa is located in Satna district, Madhya Pradesh. It is one of the oldest Buddhist stupas in India and holds significant historical and archaeological importance. It is known for its sculptures and stone carvings of the life of Lord Buddha, Jataka tales (stories of Buddha's past lives), and other Buddhist themes. It dates back to the 2<sup>nd</sup> century BC and it is constructed in the hemispherical shape of Buddhist stupas.

**85. Option (3) is correct.**

Mahamastakabhisheka is performed every 12 years at the Digambara sacred complex at Shravanabelagola in Karnataka, India. It is also known as 'Grand Consecration' or 'The Great Indian Festival.' The anointment of the Bahubali Gommateshwara statue is the most famous consecration. This forms an integral part of the ancient and composite Jain tradition. It is held in veneration of a 17.4-metre-high monolithic statue of the Siddha Bahubali. The last anointment took place in 2018 under the leadership of Charukeerthi Bhattaraka Swamiji of Shravanabelagola. The next anointment will happen in 2030.

**86. Option (3) is correct.**

Buddhism is the most practised religion in Bhutan and is followed by 75-80% of the population. There is complete freedom to practice any religion.

Bhutan's Capital- Thimphu  
Official language - Dzongkha

**87. Option (3) is correct.**

The Madhavpur fair is an annual event held in the Madhavpur village of Porbandar District, Gujarat. It is a cultural event that celebrates the marriage between Lord Krishna and Rukmani, which took place in Madhavpur village. Mishmi Tribe of Arunachal Pradesh is a part of this fair as Rukmani was the daughter of great King Bhishmaka, who belonged to this tribe. The fair brings together Northeast and West India. There are different performances including music, dance, and theatre by artists from both regions.

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

Pritam Siwach was the former Indian women's hockey team captain. At present, she is the coach of the Indian hockey women's team. She was a part of the Indian women's hockey team that won a silver medal at the 1998 Asian Games and a gold at the Commonwealth Games 2002. She was the first woman hockey coach to be given the Dronacharya Award.

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

Mrinalini Vikram Sarabhai was an Indian classical dancer who was also the founder and director of the Darpana Academy of Performing Arts. She was a trained and Kathakali dancer and was awarded Padma Shri and Padma Vibhushan by the Government of India. She was married to Vikram Sarabhai, who is considered as the father of Indian space program.

Sonal Mansingh is a Bharatnatyam and Odissi guru and dancer. She was the youngest recipient of Padma Bhushan in 1992 and Padma Vibhushan in 2003. She is also a member of Rajya Sabha. She founded the Centre for Indian Classical Dances (CICD), New Delhi.

Shovona Narayan is an Indian Kathak dancer and was trained under Birju Maharaj.

Padma Subrahmanyam is an Indian classical Bharatanatyam dancer. She is a dancer, choreographer, author, and teacher.

**90. Option (2) is correct.**

Article 32 of the Indian constitution states that every citizen of India has the right to seek constitutional remedy from the Supreme Court if they have been deprived of their fundamental rights.

Article 25 of the Constitution of India provides the freedom of conscience, the freedom to profess, practice and propagate religion to all citizens.

Article 21 of the Constitution of India establishes the Right to Life, which is also a fundamental right. It provides two rights - the right to life and the right to personal liberty. The right to life is also known as the 'heart of fundamental rights'.

Article 29 of the Constitution deals with the protection of the interests of Minorities. It provides them the right to conserve their culture, script, and language.

**STAFF SELECTION COMMISSION**  
**Multi Tasking (Non-Technical) Staff**

**SOLVED PAPER**

**(1<sup>st</sup> September 2023: Shift-1)**

**Time Allotted-** 90 Minutes

**Max marks-** 270

**Important Instructions:-**

- ⇒ This paper contains 90 questions which are divided into 4 sections and 2 sections each has 20 questions each and other 2 has 25 questions each.
  - ✓ General English
  - ✓ Numerical Aptitude
  - ✓ General Intelligence & Reasoning
  - ✓ General Awareness
- ⇒ There will be 3 marks for each correct answer and also there is no negative marking in General Intelligence & Reasoning and Numerical Aptitude sections. But in the General Awareness & General English sections, there is a negative marking of one mark for each wrong answer.
- ⇒ Each question is compulsory to attempt and there will be no negative marking for unattempted questions.

**General English**

1. Select the most appropriate ANTONYM of the given word.  
Feud  
1. Gross      2. Peril      3. Harmony      4. Vigour
2. Parts of the following sentence have been given as options. Select the option that contains an error.  
All these things happen/because she do not/pay heed to my words.  
1. pay heed to my words      3. no error  
2. all these things happen      4. because she do not
3. Select the most appropriate option that can substitute the underlined segment in the given sentence.  
Professor said that I will be late for the lecture.  
1. he shall be late for the lecture  
2. he is late for the lecture  
3. he would be late for the lecture  
4. he may be late for the lecture
4. Select the INCORRECTLY spelt word.  
1. Separate      3. Definitely  
2. Accommodate      4. Embarass
5. Select the most appropriate meaning of the given idiom.  
Sell like hot cakes  
1. Quick sell out      3. Being ignored  
2. Selling cakes      4. Eating hot cake
6. Select the most appropriate option that can substitute the underlined segment in the given sentence.  
Andrew will playing basketball at the college tournament.  
1. are play the      2. are play      3. is playing      4. is played
7. Select the most appropriate word to fill in the blank.  
Hardik Pandya hit four \_\_\_\_\_ fours and scored 72 runs in the match.  
1. continuous      3. ongoing  
2. consecutive      4. constant
8. Select the sentence that has NO spelling errors.  
1. The doctor presribed some medicine to alleviate my parsistent cough, which has been boathering me for days.  
2. The doctor precribed some medicine to aleviate my persistent cough, which has been bothering me for days.  
3. The doctor prescribed some medicine to alleviate my persistent cough, which has been boothering me for days.  
4. The doctor prescribed some medicine to alleviate my persistent cough, which has been bothering me for days.
9. Select the most appropriate synonym of the bracketed word in the following sentence to fill in the blank.  
The athlete's perseverance and mental toughness \_\_\_\_\_ (facilitate) her to overcome adversity and achieve her goals.  
1. restricted      2. enabled      3. limited      4. hindered
10. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.  
Throughout my career as a journalist, I covered many important stories and interviewed numerous individuals, which allow me to share important information and insights with my readers.  
1. To share important information and insights with my readers  
2. I covered many important stories and  
3. Throughout my career as a journalist,  
4. Interviewed numerous individuals, which allow me
11. The following sentence has been split into four segments. Identify the segment that contains a grammatical error.  
Harish says/that his sister/loves to play/harmonium.  
1. harmonium      3. Harish says  
2. loves to play      4. that his sister
12. Select the most appropriate option that can substitute the underlined segment in the following sentence.  
Selling, purchasing, and using an illegally copied product is a criminal offence.  
1. an obsolete      3. an outlawed  
2. a pirated      4. a crooked
13. Select the most appropriate option to fill in the blank.  
The hiring manager has already offered you the job; now, \_\_\_\_\_ to accept or decline the offer.  
1. a penny for your thoughts      3. pull your leg  
2. the ball is in your court      4. get your act together
14. Select the most appropriate option to fill in the blank.  
Oberon doesn't like the way Demetrius \_\_\_\_\_ to Helena. (Credit: A Midsummer Night's Dream)  
1. talked      2. talks      3. talking      4. to talk

15. Select the most appropriate meaning of the given idiom.  
Let sleeping dogs lie  
1. To let somebody sleep  
2. To fall sick intentionally  
3. Leave an existing situation as it is  
4. To care for the pet
16. Select the option that can be used as a one-word substitute for the given group of words.  
A cage made for birds.  
OR  
A place for keeping the birds in a confined space.  
1. Aquarium 2. Apiary 3. Aviary 4. Arena
17. Select the most appropriate synonym of the given word.  
Repulsive  
1. Attractive 2. Reliable 3. Disgusting 4. Uniform
18. Select the option that rectifies the spelling of the underlined word in the given sentence.  
The sergent brought in a lot of changes as soon as he was given charge.  
1. seargeant 2. sergeannt 3. sergant 4. sergeant
19. The given sentence contains an error. Select the option that correctly rectifies the error.  
The boy told his mother that he saw the most tall giraffe at the zoo.  
1. The boy told his mother that he saw the tallest giraffe at the zoo.  
2. The boy told his mother that he saw the most taller giraffe at the zoo.  
3. The boy told his mother that he saw the most tallest giraffe at the zoo.  
4. The boy told his mother that he saw the more taller giraffe at the zoo.
20. Select the most appropriate meaning of the given idiom.  
Call the shots  
1. To be a follower that makes less important decision  
2. To be in a position to make decisions that influences a situation  
3. To be in a powerless position that follows orders  
4. To be in a neutral position

**Comprehension:**

In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

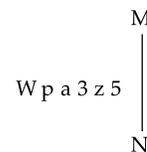
That evening we sat in the courtyard of the hotel once more, (1) \_\_\_\_\_ the sun sink below the western isles. I told Alexi what had happened that day. I (2) \_\_\_\_\_ I could glimpse the grey stone wall of Lismore House (3) \_\_\_\_\_ its island hilltop, the red light of the setting sun glinting from the windows, and from there the wasted frame of Jonathan Blake gazing out across the sea, on nothing, his boy waiting for him to die. But it was my (4) \_\_\_\_\_, simply the image on my mind, like the image burned on to your eyes when you have (5) \_\_\_\_\_ too long at the sun, the passing footprint of a creature long gone.

21. Select the most appropriate option to fill in blank no. 1.  
1. watching 2. wallowing 3. risking 4. practising
22. Select the most appropriate option to fill in blank no. 2.  
1. fancied 2. groped 3. imbibed 4. translated
23. Select the most appropriate option to fill in blank no. 3.  
1. off 2. on 3. aside 4. for

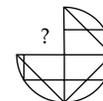
24. Select the most appropriate option to fill in blank no. 4.  
1. dribble 2. straw 3. fantasy 4. habitat
25. Select the most appropriate option to fill in blank no. 5.  
1. resumed 2. rusted 3. blocked 4. stared

**General Intelligence & Reasoning**

26. 287 is related to 398 following a certain logic. Following the same logic, 378 is related to 489. To which of the following is 852 related to, following the same logic?  
1. 643 2. 963 3. 346 4. 543
27. If 'A' stands for '+', 'B' stands for '×', 'C' stands for '+' and 'D' stands for '-', what will come in place of the question mark (?) in the following equation?  
(87 A 29) B 14 D 24 C 14 C 6 B 5 = ?  
1. 68 2. 74 3. 62 4. 56
28. What should come in place of '?' in the given series?  
9 15 33 87 ? 735 2193  
1. 241 2. 249 3. 237 4. 225
29. What should come in place of ? in the given series based on the English alphabetical order?  
CNT, FQU, ITV, LWW, ?  
1. OZX 2. NY Y 3. MXZ 4. LYX
30. 38 is related to 49 following a certain logic. Following the same logic, 64 is related to 75. To which of the following is 83 related to, following the same logic?  
1. 93 2. 95 3. 92 4. 94
31. What should come in place of '?' in the given series?  
3 9 45 261 1557 ?  
1. 9555 2. 8572 3. 9433 4. 9333
32. What will come in the place of '?' in the following equation, if '+' and '-' are interchanged and '×' and '÷' are interchanged?  
32 - 512 × 64 ÷ 8 + 64 = ?  
1. 42 2. 22 3. 32 4. 52
33. Select the correct mirror image of the given figure when the mirror is placed at MN as shown below.



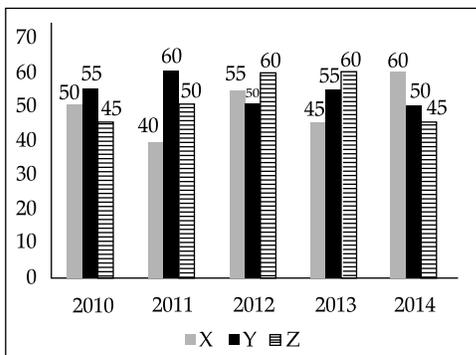
1. 2. 3. 4.
34. What should come in place of '?' in the given series?  
16 65 261 1045 4181 ?  
1. 16945 2. 16273 3. 16725 4. 16892
35. Identify the figure that completes the pattern (rotation is NOT allowed).



1. 2. 3. 4.



53. In a class of 37 students, there are 22 girls. The average weight of these girls is 46 kg and the average weight of the whole class is 50 kg. What is the average weight (in kg) of the boys in that class? (Rounded off to 2 decimal places)  
 1. 60.74      2. 55.87      3. 61.35      4. 58.25
54. A boat takes 20 hours for travelling downstream from point A to point B and comes back to a midpoint C between A and B. The speed of the stream is 5 km/h and the speed of the boat in still water is 10 km/h. Find the distance between A and B (in km).  
 1. 100      2. 120      3. 150      4. 75
55. Raju sold an article to Ravi at 10% gain. Ravi sold the article to Ramu at a loss of 10%. If Ramu paid 1,485 to Ravi. find the selling price of Raju to Ravi.  
 1. ₹ 1,200      2. ₹ 1,500      3. ₹ 1,650      4. ₹ 1,600
56. A and B can do a piece of work in 4 days. B and C can do the same work in 5 days, A and C can do it in 10 days. If A, B, C work together, in how many days can they complete the work?  
 1.  $3\frac{11}{7}$       2.  $11\frac{3}{7}$       3.  $3\frac{7}{11}$       4.  $11\frac{7}{3}$
57. The graph shows the production of tyres (in Lakhs) by three different companies X, Y, and Z over the years. Directions: Study the following graph carefully to answer the question given below it.



What is the difference between the average production per year of the company with the highest average production and that of the company with the lowest average production in Lakhs?

1. 2      2. 6      3. 8      4. 4
58. What is the mean proportional of 9.61 and 3.61?  
 1. 3.17      2. 5.89      3. 4.87      4. 6.78
59. Two numbers A and B are such that the sum of 6% of A and 4% of B is two-fifth of the sum of 7% of A and 11% of B, then the ratio A: B is:  
 1. 3:7      2. 5:8      3. 1:8      4. 1:7
60. Two trains of length 110 m and 85 m are moving in the same direction at 12 m/s and 7 m/s, respectively. Find the time (in seconds) taken by the faster train to cross the slower train.  
 1. 39      2. 35      3. 19      4. 29
61. In what ratio must a grocer mix two varieties of rice costing ₹ 128 and ₹ 143 per kg, respectively, to get a mixture of rice worth ₹ 137.75 per kg?  
 1. 12:5      2. 7:13      3. 5:4      4. 6:7
62. Two persons take steps of 77 cm and 88 cm, respectively. If they start in step, then what is the minimum distance (in cm) they should cover so that both of them can cover the distance in complete steps?  
 1. 968      2. 828      3. 616      4. 560

63. The surface area of a sphere is 616 cm<sup>2</sup>, find its diameter.

$$\text{Take} = \frac{22}{7}$$

1. 14 cm      2. 2 cm      3. 4 cm      4. 3 cm
64. The diameter of a metallic sphere is 6 cm. It is melted and drawn into a wire having a diameter of the cross section as 0.4 cm. Find the length of the wire (in metres).  
 1. 18      2. 9      3. 12      4. 10
65. A, B and C can do a piece of work in 10, 15, 12 days, respectively. A and B worked alternately for 5 days each and left. Then C joined and completed the work. In how many days did C complete the remaining work?  
 1. 3      2. 1      3. 4      4. 2

### General Awareness

66. FIFA U-17 Women's World Cup 2022 matches were NOT held in which state?  
 1. Maharashtra      2. Odisha      3. Goa      4. Gujarat
67. Who among the following is one of the co-authors of the book, 'Cracking The Code: My Journey in Bollywood'?  
 1. Harshvardhan Kapoor      3. Ayushmann Khurrana  
 2. Nawazuddin Siddique      4. Rajkumar Rao
68. In 1873, who published the first photograph of nerve tissue stained with the black reaction technique, describing a whole nerve cell?  
 1. Gunter Blobel      3. William Harvey  
 2. Camillo Golgi      4. Paul Ehrlich
69. In October 2022, Virat Kohli became the first Indian to complete how many runs in T20 cricket history?  
 1. 11000      2. 9000      3. 5000      4. 15000
70. According to Sikh literature, the birth anniversary of Guru Nanak Dev is celebrated on the full moon day of the Indian lunar month \_\_\_\_\_.  
 1. Magh      2. Paush      3. Ashada      4. Kartik
71. Yakshagana is a folk dance that belongs to the state of \_\_\_\_\_.  
 1. Kerala      2. Karnataka      3. Haryana      4. Rajasthan
72. The brick temple of Bhitargaon is situated in which state?  
 1. Odisha      3. Uttar Pradesh  
 2. Jharkhand      4. Madhya Pradesh
73. Which of the following movements was founded in Bengal?  
 1. Ramakrishna Mission      3. Satyashodhak Samaj  
 2. Arya Samaj      4. Prarthana Samaj
74. On 15 August 1947, the first prime minister of India, Jawaharlal Nehru, raised the Indian National Flag above the \_\_\_\_\_ of Red Fort in Delhi.  
 1. Delhi Gate      3. Ajmeri Gate  
 2. Kashmiri Gate      4. Lahori Gate
75. 'Mandarin' is the official language of which neighbouring country of India?  
 1. Afghanistan      2. Bhutan      3. Sri Lanka      4. China
76. Which of the following is used to measure the total output of goods and services in an economy including depreciation during a specific period within country?  
 1. Net Domestic Product (NDP)  
 2. Gross National Product (GNP)  
 3. Net National Product (NNP)  
 4. Gross Domestic Product (GDP)
77. Which of the following is NOT related to the sport of swimming?  
 1. Breaststroke      3. Freestyle  
 2. Back stroke      4. Penalty Corner

78. The East-West corridor, which is a part of the Golden Quadrilateral super highways, links which two cities of India from the following?  
 1. Ahmadnagar and Imphal    3. Jaipur and Gangtok  
 2. Silchar and Porbander    4. Gandhi Nagar and Silchar
79. What is the name of the seventh most abundant metal in the earth's crust, which is derived from the medieval Latin word 'Kalium'?  
 1. Aluminium                      3. Calcium  
 2. Magnesium                      4. Potassium
80. What is the aim of Article 44 of the Indian Constitution?  
 1. To protect every monument or place of artistic or historic interest  
 2. To separate judiciary from the executive in the public services of the State  
 3. To protect and improve the environment and safeguard the forests and wildlife of the country  
 4. To secure for the citizen, a uniform civil code through the territory of India
81. Which of the following novels of Kamleshwar was awarded the Sahitya Akademi Award in 2003?  
 1. Jalti Hui Nadi                      3. Kitne Pakistan  
 2. Kaali Aandhi                      4. Ek Sadak Sattavan Galiyan
82. Which of the following institutes was founded by MG Ranade and GV Joshi?  
 1. Abhinav Bharat  
 2. The Indian National Congress  
 3. The Bombay Presidency Association  
 4. Poona Sarvajanik Sabha
83. Roshan Kumari, Shovana Narayan, Maya Rao and Kumudini Lakhia are eminent \_\_\_\_\_ artists.  
 1. Odissi    2. Kuchipudi    3. Kathak    4. Manipuri
84. Rani Machaiah is a folk dancer who was awarded Padma Shri in 2023.  
 1. Ummathat    2. Lambadi    3. Gussadi    4. Dhimsa
85. What is the difference between a debit card and a credit card?  
 1. Debit cards are used for online transactions, while credit cards are used for in-person purchases.  
 2. Credit cards require a PIN, while debit cards require a signature.  
 3. Debit cards withdraw money directly from a bank account, while credit cards allow borrowing up to a certain limit.  
 4. Debit cards have higher interest rates than credit cards.
86. The Constitution (Scheduled Tribes) Order (Second Amendment) Bill, 2022 has included Narikoravan and Kurivikkaran communities in the list of Scheduled Tribes of which state?  
 1. Bihar                                      3. Chhattisgarh  
 2. Tamil Nadu                              4. Odisha
87. Which group of musicians were awarded by 'Bharat Ratna' from the following? (As of May 2023.)  
 1. Anu Malik and Udit Narayan  
 2. Pandit Ravi Shankar and Pandit Bhimsen Joshi  
 3. Asha Bhosle and Kishore Kumar  
 4. AR Rahman and Hariprasad Chaurasia
88. Which river is also known as Tsangpo?  
 1. Ganga river                              3. Kaveri river  
 2. Gandak river                              4. Brahmaputra river
89. What is the destination of the water drained off by the Nile river?  
 1. Lake Victoria                              3. Mediterranean Sea  
 2. Indian Ocean                              4. Lake Tanganyika
90. Article 149 of the Constitution deals with \_\_\_\_\_.  
 1. the qualifications required for the appointment of the Comptroller and Auditor-General of India  
 2. the duties and powers of the Comptroller and Auditor-General of India  
 3. the term of office of the Comptroller and Auditor-General of India  
 4. the appointment of the Comptroller and Auditor-General of India

### Answer Key

1. (3)	2. (4)	3. (3)	4. (4)	5. (1)	6. (3)	7. (2)	8. (4)	9. (2)	10. (4)
11. (1)	12. (2)	13. (2)	14. (2)	15. (3)	16. (3)	17. (3)	18. (4)	19. (1)	20. (2)
21. (1)	22. (1)	23. (2)	24. (3)	25. (4)	26. (2)	27. (3)	28. (2)	29. (1)	30. (4)
31. (4)	32. (3)	33. (4)	34. (3)	35. (4)	36. (2)	37. (4)	38. (3)	39. (2)	40. (1)
41. (1)	42. (4)	43. (4)	44. (4)	45. (4)	46. (3)	47. (4)	48. (1)	49. (2)	50. (3)
51. (4)	52. (4)	53. (2)	54. (2)	55. (3)	56. (3)	57. (4)	58. (2)	59. (3)	60. (1)
61. (2)	62. (3)	63. (1)	64. (2)	65. (4)	66. (4)	67. (3)	68. (2)	69. (1)	70. (4)
71. (2)	72. (3)	73. (1)	74. (4)	75. (4)	76. (4)	77. (4)	78. (2)	79. (4)	80. (4)
81. (3)	82. (4)	83. (3)	84. (1)	85. (3)	86. (2)	87. (2)	88. (4)	89. (3)	90. (2)

### Answers with Explanations

1. **Option (3) is correct.**  
 The word 'feud' means 'a prolonged and bitter quarrel or dispute.' Therefore, the antonym is something related to peace; thus, 'harmony' is the correct choice.
2. **Option (4) is correct.**  
 The correct sentence is: All these things happen because she does not pay heed to my words. The part 'because she do not' will be replaced by 'because she does not', because as per subject-verb concord, a singular subject (she) takes a singular verb (does).
3. **Option (3) is correct.**  
 The correct sentence is: Professor said that he would be late for the lecture. The part 'I will be late for the lecture' will be replaced by 'he would be late for the lecture'. In indirect speech, when the reporting verb is in past tense (said), the verb in the sentence will also be in past- 'will' changes to 'would' and first person (I) becomes the third person (he).
4. **Option (4) is correct.**  
 The incorrectly spelt word is 'embarass'; it will be 'embarrass' (humiliate).

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

The idiom 'Sell like hot cakes' implies 'be sold quickly and in large quantities.' So 'quick sell out' is correct.

**6. Option (3) is correct.**

The correct sentence is: Andrew is playing basketball at the college tournament. The part 'will playing' is incorrect and hence will be replaced by 'is playing'. 'Will' is always followed by 'be'.

**7. Option (2) is correct.**

The correct sentence is: Hardik Pandya hit four consecutive fours and scored 72 runs in the match. The word 'consecutive' means 'following each other continuously.' While other options do not reflect the same connotation.

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

The correct sentence is: The doctor prescribed some medicine to alleviate my persistent cough, which has been bothering me for days. Option (1) has the errors in 'presribed', 'parsistent' 'boathering'. Option (2) has errors in 'precribed', 'aleviate', option (3) has errors in 'aleviate', 'parsistent', 'boathering'.

**9. Option (2) is correct.**

The correct sentence is: The athlete's perseverance and mental toughness enabled her to overcome adversity and achieve her goals. The word 'facilitate' means 'to help', so 'enable' is correct. Moreover, other options are antonyms of 'facilitate'.

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

The correct sentence is: Throughout my career as a journalist, I covered many important stories and interviewed numerous individuals, which allows me to share important information and insights with my readers. The part 'interviewed numerous individuals, which allow me' is incorrect. This is because the subject is in singular (interviewed numerous individuals), and this interview allows him to share important information and insights with my readers.

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

The correct sentence is: Harish says that his sister loves to play the harmonium. It is a rule that before musical instruments the definite article (the) is used. So 'the' will precede harmonium.

**12. Option (2) is correct.**

The correct sentence is: Selling, purchasing, and using a pirated product is a criminal offence. The word 'pirated' means 'illegally copied'.

**13. Option (2) is correct.**

The correct sentence is: The hiring manager has already offered you the job; now, the ball is in your court to accept or decline the offer. The idiom 'the ball is in your court' implies that it is his or her responsibility to take the next action or decision in a situation. Since, the hiring manager has already offered the job, it is up to the person to accept or decline the offer. The idiom 'a penny for your thoughts' is used to ask what someone is thinking about. The idiom 'pull your leg' means 'deceive someone playfully; tease someone.' The idiom 'get your act together' implies 'to start to organise yourself so that you do things in an effective way'.

**14. Option (2) is correct.**

The correct sentence is: Oberon doesn't like the way Demetrius talks to Helena. The sentence is in present tense, so 'talks' is the correct form of verb.

**15. Option (3) is correct.**

The idiom 'Let sleeping dogs lie' connotes 'to ignore a problem because trying to deal with it could cause an even more difficult situation.' Example: I wanted to raise concerns regarding the corrupt administration in school, but decided to let the sleeping dogs lie.

**16. Option (3) is correct.**

A cage made for birds or a place for keeping the birds in a confined space is an aviary. Apiaries are place where beehives are kept. Arena is an enclosed area used for public entertainment.

**17. Option (3) is correct.**

Repulsive means arousing intense distaste or disgust. (1) is the antonym; while 'disgusting' is the synonym.

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

The correct sentence is: The sergeant brought in a lot of changes as soon as he was given charge. Here, 'sergent' will be replaced by 'sergeant'.

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

The correct sentence is: The boy told his mother that he saw the tallest giraffe at the zoo. The phrase 'most tall' will be replaced by 'tallest', because the superlative degree of 'tall' is 'tallest', not 'taller'. Option (3) is incorrect as the use double superlative (most tallest) is incorrect.

**20. Option (2) is correct.**

'Call the shots' means 'take the initiative in deciding how something should be done.' Example- Since he is elder to me, I asked him to call the shots in the case. Thus, To be in a position to make decisions that influences a situation.

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

The correct sentence is: That evening we sat in the courtyard of the hotel once more, watching the sun sink below the western isles. The verbs 'wallowing' (self-pitying), practising, risking do not fit the act of observing the sun sink below the western isles.

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

The correct sentence is: . I fancied I could glimpse the grey stone wall of Lismore House... To 'fancy' means to feel a desire or liking for. Other verbs are unlikely and unfit for the blank.

**23. Option (2) is correct.**

The correct sentence is: the grey stone wall of Lismore House on its island hilltop. The preposition 'on' is used to denote the location of Lismore House, (used to show that something is in a position above something else and touching it).

**24. Option (3) is correct.**

The correct sentence is: But it was my fantasy simply the image on my mind,... Here the word 'fantasy' ( event that you think about and that you want to happen, especially one that is unlikely to happen) fits the best because the context is related to imagination.

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

The correct sentence is: like the image burned on to your eyes when you have stared too long at the sun, the passing footprint of a creature long gone. The idea of looking for a long time with the eyes wide open is 'staring'.

**26. Option (2) is correct.**

Given that: 287 is related to 398 and 378 is related to 489. The pattern followed here is:

$$\begin{array}{r} 2 \\ +1 \left| \right. \\ 3 \end{array} \quad \begin{array}{r} 8 \\ +1 \left| \right. \\ 9 \end{array} \quad \begin{array}{r} 7 \\ +1 \left| \right. \\ 8 \end{array}$$

And

$$\begin{array}{r} 4 \\ +1 \left| \right. \\ 5 \end{array} \quad \begin{array}{r} 7 \\ +1 \left| \right. \\ 8 \end{array} \quad \begin{array}{r} 8 \\ +1 \left| \right. \\ 9 \end{array}$$

Similarly,

$$\begin{array}{c} 8 \\ +1 \downarrow \\ 9 \end{array} \quad \begin{array}{c} 5 \\ +1 \downarrow \\ 6 \end{array} \quad \begin{array}{c} 2 \\ +1 \downarrow \\ 3 \end{array}$$

Hence, 852 is related to 963 in the same manner as the others.

**27. Option (3) is correct.**

Given series: (87 A 29) B 14 D 24 C 14 C 6 B 5 = ?

After putting the signs in the series, we get:

$$(87 \div 29) \times 14 - 24 + 14 + 6 \times 5$$

According to BODMAS rule,

$$3 \times 14 - 24 + 14 + 6 \times 5$$

$$42 - 24 + 14 + 30$$

$$86 - 24 = 62$$

**28. Option (2) is correct.**

Given that: 9 15 33 87 ? 735 2193

The pattern followed here is:

$$9 + 6 = 15$$

$$15 + 6 \times (3)^1 = 33$$

$$33 + 6 \times (3)^2 = 87$$

$$87 + 6 \times (3)^3 = 249$$

$$249 + 6 \times (3)^4 = 735$$

$$735 + 6 \times (3)^5 = 2193$$

Hence, 249 is the missing number.

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

Given that: CNT, FQU, ITV, LWW, ?

The pattern followed here is:

$$\begin{array}{c} C \\ +3 \downarrow \\ F \\ +3 \downarrow \\ I \\ +3 \downarrow \\ L \\ +3 \downarrow \\ O \end{array} \quad \begin{array}{c} N \\ +3 \downarrow \\ Q \\ +3 \downarrow \\ T \\ +3 \downarrow \\ W \\ +3 \downarrow \\ Z \end{array} \quad \begin{array}{c} T \\ +1 \downarrow \\ U \\ +1 \downarrow \\ V \\ +1 \downarrow \\ W \\ +1 \downarrow \\ X \end{array}$$

Hence, OZX is the correct answer.

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

Given that: 38 is related to 49 and 64 is related to 75

The pattern followed here is:

$$\begin{array}{c} 3 \\ +1 \downarrow \\ 4 \end{array} \quad \begin{array}{c} 8 \\ +1 \downarrow \\ 9 \end{array}$$

And,

$$\begin{array}{c} 5 \\ +1 \downarrow \\ 6 \end{array} \quad \begin{array}{c} 4 \\ +1 \downarrow \\ 5 \end{array}$$

Similarly,

$$\begin{array}{c} 8 \\ +1 \downarrow \\ 9 \end{array} \quad \begin{array}{c} 3 \\ +1 \downarrow \\ 4 \end{array}$$

Hence, 83 is related to 94 in the same manner.

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

Given series: 3 9 45 261 1557 ?

$$3 + (6)^1 = 9$$

$$9 + (6)^2 = 45$$

$$45 + (6)^3 = 261$$

$$261 + (6)^4 = 1557$$

$$1557 + (6)^5 = 9333$$

Hence, 9333 is the correct answer.

**32. Option (3) is correct.**

Given equation:  $32 - 512 \div 64 \div 8 + 64 = ?$

After interchanging the signs as per question, we get

$$32 + 512 \div 64 \times 8 - 64$$

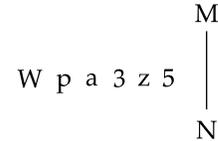
According to the BODMAS rule:

$$32 + 8 \times 8 - 64$$

$$32 + 64 - 64 = 32$$

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

Given figure:



In the mirror image, objects on the left appears in the right and objects on the right appears in the left. Hence, the required image is:

$\bar{c} \bar{z} \bar{e} \bar{s} \bar{q} \bar{W}$

**34. Option (3) is correct.**

Given that: 16 65 261 1045 4181 ?

The pattern followed here is:

$$16 \times 4 + 1 = 65$$

$$65 \times 4 + 1 = 261$$

$$261 \times 4 + 1 = 1045$$

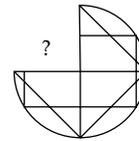
$$1045 \times 4 + 1 = 4181$$

$$4181 \times 4 + 1 = 16725$$

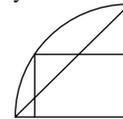
Hence, 16725 is the correct answer.

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

Given figure:



As per the pattern and symmetry followed, option (4) fulfills the given image correctly.



**36. Option (2) is correct.**

Given pair:

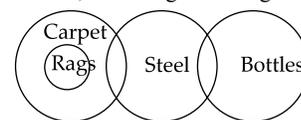
Reflection: Light

when light rays bounces back from a surface, it is known as reflection. Similarly, when a sound bounces back from a surface, it is known as echo.

Hence, Echo: Sound is the word pair which represents a similar relationship.

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

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



Conclusion I - All carpets are rags.

All rags are carpet but all carpet are rags is not definite. So, this conclusion doesn't follows.

Conclusion II - Some carpets are bottles.

Some carpets are steel and some steel are bottles but some carpets are bottles is not definite. So, this conclusion doesn't follow.

Hence, neither conclusion I nor II follows.

38. **Option (3) is correct.**

Given that: X \_AL ZH \_L \_KAL DNA \_QAL

Upon inserting alphabets from option (3), we get

XEAL ZHAL BKAL DNAL FQAL

Here 1<sup>st</sup> letter of the clusters is increasing by 2 positional values.

2<sup>nd</sup> letter of the clusters is increasing by 3 positional values.

3<sup>rd</sup> and 4<sup>th</sup> letters are same as A and L in all clusters.

Hence, it is the correct option.

39. **Option (2) is correct.**

Given word: FINGER

When we arrange this word alphabetically, we get

EFGINR

Which means only 1 letter 'R' will remain unchanged at its position.

Hence, one is the correct answer.

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

Given that:

BLUE is coded as 1542

ABLE is coded as 1745

If we compare both the words we get,

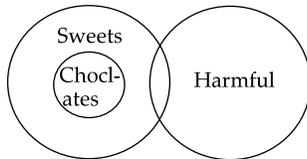
The codes for the similar alphabets in both the words, i.e. B, L, E are 1, 5, 4 (In random order), indicating that the only letter remaining in the word ABLE is 'A.'

Therefore, there is only 1 digit left for 'A' which is 7.

Hence, 7 is the correct answer.

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

As per the question, following venn diagram can be made:



Both the conclusions are not definite as per the given information. Hence, neither conclusion I nor II follows.

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

Given that:

K	3	3	D	D	U	U	T	
L	O	U	D	K	T	O	L	O
	T		U		3		K	?

As per the pattern followed and symmetry, the required image is as follows:

T			K
L	O	D	3
		U	

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

Given that:

ENVY is coded as FMWX

The pattern followed is:

E	+	1	F
N	-	1	M
V	+	1	W
Y	-	1	X

And, ALAS is coded as BKBR:

A	+	1	B
L	-	1	K
A	+	1	B
S	-	1	R

Similarly, BODY can be coded as:

B	+	1	C
O	-	1	N
D	+	1	E
Y	-	1	X

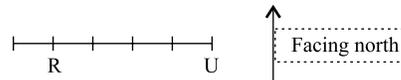
Hence, CNEX is the correct answer.

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

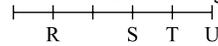
Given that: P, Q, R, S, T and U are sitting in a straight line facing north.

As per the question,

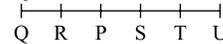
U sits fourth to the right of R and R is not sitting at the extreme end on the line.



T is the immediate neighbour of U and S.



Q sits third to the left of S.



Hence, P is sitting immediately to the right of R.

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

Given series: P \_ \_PO\_P\_P\_OP

Upon inserting alphabets from option (4) sequentially in the series, we get

POPPOPPOPPOP

Hence, it forms a logical series.

46. **Option (3) is correct.**

∴ Ratio of the second number to third number is 7 10

Let the second number = 7x

Third number = 10x

First number =  $\frac{4}{5} \cdot 10x = 8x$  [20% less than third number]

Average of the first and third number =  $\frac{8x + 10x}{2} = 9x$

Required percentage =  $\frac{9x - 7x}{7x} \cdot 100\% = \frac{200}{7}\% = 28\frac{4}{7}\%$

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

Let the principal amount deposited = ₹ x

Rate of interest, r = 5%

Time, t = 3 years

Amount, A = ₹ 27783

$$\therefore A = P \left[ 1 + \frac{r}{100} \right]^t$$

$$27783 = x \left[ 1 + \frac{5}{100} \right]^3 \Rightarrow x = \frac{277783}{(1.05)^3} = 24000$$

Amount deposited by her is ₹24000.

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

Total time taken by driver in the complete journey

$$= (3 + 1 + 4) \text{ hr} = 8 \text{ hr}$$

Total distance travelled = 60 × 3 + 60 × 4

$$= 420 \text{ km}$$