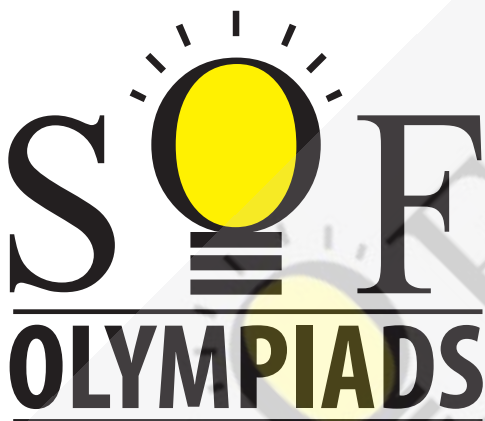


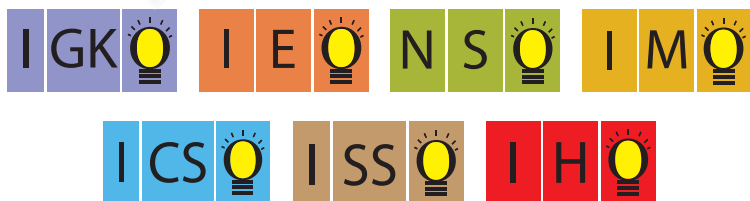
CLASS

7



Teacher Handbook

SYLLABUS 2025-26 **SAMPLE PAPER**





Important:
Applications
must reach us by
August 30,
2025.

THE WORLD'S BIGGEST OLYMPIADS



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Olympiads

Contents

1. About SOF Olympiads	4
2. School Awards	5
3. Scholarships	6
4. Scholarships & Awards	7
5. Guidelines	8
6. IGKO Syllabus and Sample Paper	9-10
7. IEO Syllabus and Sample Paper	11-12
8. NSO Syllabus and Sample Paper	13-14
9. IMO Syllabus and Sample Paper	15-16
10. ICSO Syllabus and Sample Paper	17-18
11. ISSO Syllabus and Sample Paper	19-20
12. IHO Syllabus and Sample Paper	21-22

4

For latest information, please visit www.sofworld.org



SCHOOL AWARDS



	Principal			Teacher and Olympiad Incharge		
	Cash Award	Trophy	Certificate	Cash Award	Trophy	Certificate
School	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
District	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Zonal	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
International	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

SOF SCHOOL ACADEMIC PROGRESS REPORT FOR EVERY SCHOOL

<input checked="" type="checkbox"/> Annual SOF Gifts	<input checked="" type="checkbox"/> New Year SOF Gifts
--	--

Scholarships

SOF's dedicated scholarships, including the Girl Child Scholarship Scheme, Defence Services Academic excellence Scholarship and Academic Excellence Scholarship, demonstrate its commitment to fostering inclusivity and supporting education for all.



SOF
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**Girl Child
Scholarship
Scheme
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**Defence Services
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Scholarship
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Scholarships & Awards*

The Science Olympiad Foundation (SOF) is committed to nurturing young talent and recognizing excellence in academics and beyond. Through its prestigious Olympiads, SOF not only challenges students to reach their highest potential but also acknowledges their achievements with an extensive range of awards, scholarships and recognitions.



Scan the QR code for more details

Level 1 - Scholarships and Awards

Level	Recognition
Level 1	<ul style="list-style-type: none"> All participating students receive a Certificate of Participation*. All participating students receive a detailed SPR - Student Progress Report. Gold Medal of Distinction and Certificate of Distinction for top 25 Zonal toppers per class per exam*. Gold Medal of Excellence for top 10% students from each class. SAPR - School Academic Progress Report for school management.



Final Level - Scholarships and Awards

Level	Category	Award	Additional Recognition	Numbers
Level 2 (IEO, NSO, IMO)	Top 3 International Rankers	₹50,000, ₹25,000 and ₹10,000 for ranks 1, 2 and 3 respectively	International Medals: Gold, Silver and Bronze Certificate of Outstanding Performance	222 Winners
Level 1 (IGKO, ICSSO, ISSO, IHO, ICO)	Top 3 Zonal Rankers	₹5,000, ₹2,500 and ₹1,000 for ranks 1, 2 and 3 respectively	Zonal Medals: Gold, Silver and Bronze Certificate of Zonal Excellence	5,772 Winners
Level 1 (IEO, NSO, IMO) Class 1 & 2	Zonal Rankers 4 to 10	Gift worth ₹500 each	Certificate of Zonal Excellence	13,468 Winners
	Zonal Rankers 11 to 25		Certificate of Zonal Excellence	28,860 Winners
Level 2 (IEO, NSO, IMO)	Zonal Rankers 26 onwards		Merit Certificate	

Recognition for Visionary Leaders (School Principals) & Visionary Educators (Teachers)



Best Principal (International) Citation + Trophy + ₹25,000

Best Principal (Zonal) Citation + Trophy + ₹10,000

Best Principal (District) Citation + Trophy + ₹5,100

Best Teacher (International) Citation + Trophy + ₹10,000

Best Teacher (Zonal) Citation + Trophy + ₹5,000

Best Teacher (District) Citation + Trophy + ₹1,000

* For further details, please visit www.sofworld.org **Note:** TDS as applicable will be deducted.

Guidelines



Scan the QR code to get important updates

1. Medium of the Olympiads

All SOF Olympiads will be conducted in English, except IHO, which will be conducted in Hindi.

2. School Codes

Each school receives a unique 6-digit code from SOF when it registers for the Olympiads (different from CBSE or any other education board affiliation code). Schools should contact the SOF Head Office in Gurugram if they do not know their code.

3. Registration Procedure

Schools must complete all columns of the SRF (School Registration Form) and SRS (Student Registration Sheet) accurately and legibly and submit them before the due date. Schools are requested to display the enclosed posters on noticeboards, classrooms, or other prominent places. Students must register through their schools only. Individual or direct registrations will not be accepted.

Schools may register in one of the following ways:

- Fill out and courier the registration forms.
- Fill out, scan, and email the registration forms.
- Register online at ors.sofworld.org.

4. Sample Questions & Study Material

Sample questions and study material for each class are included with the prospectus. They can also be downloaded from the SOF website: www.sofworld.org.

5. Exam Format

All questions are multiple-choice questions (MCQ). There is no negative marking. Schools must choose one available date to conduct the exam. They must conduct it strictly on that chosen date only. Different sets of question papers are provided for each date, and non-adherence to the chosen date may lead to cancellation of the exam.

6. OMR Sheets

Students must fill in all columns of the OMR sheet correctly. Any incorrect or incomplete information may lead to disqualification from ranking. A sample OMR sheet is available on the SOF website and is also attached with the prospectus.

7. After the Exam

Answer sheets should be returned to the SOF Head Office next day of the exam. Schools must ensure the answer sheets reach the SOF Head Office within 7 days of the exam date. SOF will not evaluate any answer sheets received beyond the stipulated date.

8. Result

Results are typically declared about 8 weeks after the answer sheets are received. They will be sent to the respective schools and will also be uploaded on the SOF website.

LEVEL 1 SOF OLYMPIADS

1. Examination Centre

All Level 1 Olympiads will be conducted in the students' own schools.

2. Time of the Olympiads

The Level 1 Olympiads are held during school hours.

3. Criteria for Level 1

All students (as per their school's registration) in the relevant classes for the respective Olympiads.

Note : Some exams are single-level only: IGKO, ICSSO, ISSO, IHO and ICO. Students appearing for these exams will not have a Level 2 exam.

LEVEL 2 SOF OLYMPIADS

1. Applicable Olympiads

Level 2 Olympiads are conducted for IEO, NSO, and IMO for classes 3 to 12. IGKO, ICSSO, ISSO, IHO and ICO do not have a Level 2 (they are single-level exams).

2. Date and Examination Centre

The Level 2 exam is scheduled for 8th February, 2026 tentatively. It will be conducted at centers finalized by SOF (not in the students' own schools).

3. No Registration Fee

No separate registration fee is charged for the Level 2 exams.

4. Qualification Criteria

- Top 5% of students (class-wise) who appear in the Level 1 exam, internationally.
- Top 25 rank holders from each zone and each class.
- Class topper (where at least 10 students from a class register for the exam and the topper scores at least 50% marks). In the case of multiple sections in a class, the topper with the highest marks across all sections qualifies.

5. Admit Cards

Admit Cards for the Level 2 Olympiads will be dispatched to schools or uploaded on the SOF website (www.sofworld.org) before the Level 2 exam. The Roll Number slip from the Level 1 exam may also serve as the admit card for Level 2 for qualifying students.

Total Questions : 50

Time : 1 hr.

PATTERN & MARKING SCHEME

Section	(1) General Awareness	(2) Current Affairs	(3) Life Skills	(4) Achievers Section
No. of Questions	30	10	5	5
Marks per Ques.	1	1	1	3

SYLLABUS

Plants and Animals, India and the World, Science and Technology, Earth and Its Environment, Universe, Language and Literature, Entertainment, Social Studies, Sports, Quantitative Aptitude and Reasoning, Current Affairs, Life Skills (Empathy, Effective Communication, Critical Thinking, Creative Thinking, Coping with Stress, Decision Making, Problem Solving, Interpersonal Skills, Managing Emotions, Self-awareness).

Achievers Section : Higher Order Thinking Questions from the above given Syllabus.

- 'Water hyacinth' which is a free floating weed and infests India's waterways choking off plants, fish and animal growth is a native of
(A) Australia (B) France (C) South America (D) North America.
- How many stars form the shape of the Little Dipper?
(A) 7 (B) 9 (C) 18 (D) 10
- Who among the following was the sportsperson to receive the 'Padma Vibhushan', the second highest civilian award in India in 2008?



Viswanathan
Anand



Rahul Dravid



P.T. Usha



Sania Mirza

- The percussion instrument shown in the given picture belongs to Manipur in India and is called as 'Manipuri Mridanga'. What is its local name?

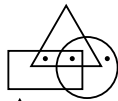
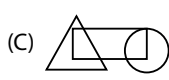
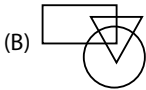
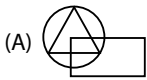


- (A) Meitei Pung (B) Xylophone (C) Tambourine (D) Celesta
- Identify the following from the given statements and select the correct option.
 - They are the most powerful and expensive computers used primarily for processing complex scientific applications.
 - They use multiprocessing and parallel processing technologies to solve complex problems.

- Their speed is measured in teraflops or petaflops.

- (A) Microcomputers (B) Supercomputers
(C) Minicomputers (D) Tabulating machines

6. Select a figure from the options which satisfies the same conditions of placement of the dots as in the given figure.



7. Who among the following became the first woman in the Indian Army to hold the rank of Subedar?

- (A) Preeti Rajak (B) Ramita Jindal (C) Ashi Chouksey (D) Manini Kaushik

8. If you ever experience cyberbullying then you should

- (A) Keep it to yourself
(B) Reach out to trusted friends or family members for help
(C) Retaliate by sending mean messages back
(D) Break your laptop and mobile phone.

ACHIEVERS SECTION

9. Names of few sports are given in the box.

- | | | | |
|------------------------|--------------|--------------|------------------|
| 1. Free style swimming | 2. Wrestling | 3. Running | 4. Discuss throw |
| 5. Shooting | 6. Fencing | 7. Long jump | 8. Javelin throw |
| 9. Show jumping | | | |

Which of the following options correctly classifies them?

Modern Olympic Pentathlon

- (A) 2, 3, 4, 7 and 8
(B) 1, 3, 5, 6 and 9
(C) 1, 4, 5, 7 and 9
(D) 2, 3, 5, 7 and 9

Ancient Olympic Pentathlon

- 1, 3, 5, 6 and 9
2, 3, 4, 7 and 8
1, 2, 3, 6 and 8
1, 3, 4, 6 and 8

10. Match the columns and select the correct option from the given codes.

Column I

- P. First Asian to receive the Hoover Medal
Q. First person of Indian origin to receive Booker Prize
R. First Indian to receive Pulitzer Prize
S. First person to be awarded the Templeton Prize

Column II

- (i) VS Naipaul
(ii) APJ Abdul Kalam
(iii) Gobind Behari Lal
(iv) Rabindranath Tagore
(v) Mother Teresa

- (A) P-(ii), Q-(i), R-(iii), S-(v)
(C) P-(iv), Q-(v), R-(ii), S-(iii)

- (B) P-(v), Q-(iv), R-(ii), S-(i)
(D) P-(ii), Q-(i), R-(iv), S-(iii)

ANSWER KEY

1. (C) 2. (A) 3. (A) 4. (A) 5. (B) 6. (B) 7. (A) 8. (B) 9. (B) 10. (A)

Total Questions : 50

Time : 1 hr.

PATTERN & MARKING SCHEME

Section	(1) Word and Structure Knowledge	(2) Reading	(3) Spoken and Written Expression	(4) Achievers Section
No. of Questions	30	10	5	5
Marks per Ques.	1	1	1	3

SYLLABUS

Section – 1 : Spellings, Collocations and Words related to Travel, Locations, Activities, Homonyms and Homophones, etc., Synonyms, Antonyms, Analogies and Spellings, One word, Phrasal verbs and Idioms, Modals, Word order, Nouns, Pronouns, Verbs, Adverbs, Adjectives, Articles, Prepositions, Conjunctions, Punctuation, Tenses, Voices and Narration, etc.

Section – 2 : Search for and retrieve information from various text types like News stories, Brochures, Formal and informal letters and advertisements. Understand information given in News reports, Brochures, Itinerary, etc., Acquire broad understanding of and look for specific information in short narratives, Biographies, Notices and Messages, etc.

Section – 3 : Ability to understand situation-based variations in functions like requesting and refusing, Apologies and stating of preferences and expression of intent, etc.

Section – 4 : Higher Order Thinking Questions - Syllabus as per Sections 1, 2 and 3.

WORD AND STRUCTURE KNOWLEDGE

- Choose the correct option to fill in the blank.
The ancient manuscript, which _____ by scholars for decades, was finally _____ in a forgotten library.
(A) had been sought, discovered (B) was seeking, found
(C) is seeking, being discovered (D) has sought, discovering
- Choose the option with correct spelling.
(A) Veteninary (B) Veterinary (C) Vetniary (D) Vetarinary
- Choose the correct synonym of the given word.
Uniformity
(A) Imbalance (B) Consistency
(C) Discord (D) Variation
- Choose the correct meaning for the given idiom/proverb.
'Make a mountain out of a molehill' means _____.
(A) to become suddenly enraged
(B) to calm a disturbance
(C) to divulge a secret
(D) to blow an issue out of proportion

READING

Directions (For Q. No. 5 and 6) : Read the passage and answer the questions that follow.

Once upon a time, a miller and his young son were going along a road. They had their ass with them. Hardly had they covered a few metres than they came across a person who laughed and said, "How foolish both of you are! Can't one of you ride on the ass?" Hearing this, the son rode on the animal, and the father walked along. About two hundred metres away, they met an old man who said, "Look at this shameless youngster! He is merrily riding on the ass, while his father is trudging his way." This was enough for the boy to get off the animal. Now, the miller himself rode on it. After five minutes, they met another man who made fun of the old man, saying, "Look at the old man! He's too selfish to think of the young boy." These stinging words made the poor miller get off the ass.

Now, the father and the son tied the ass to two poles with the help of ropes. They carried the animal on their shoulders, to the great amusement of the passers-by. As they were crossing a bridge over a river, the ass got impatient. It kicked itself free, but was drowned in the deep water.

5. What did the old man comment?
(A) He condemned the father for letting the little boy walk on the road.
(B) He condemned the young boy for riding the ass.
(C) He criticised both the father and the son.
(D) He commented on the ill-health of the ass.
6. Which of the following words means 'walking slowly with heavy steps'?
(A) Going (B) Trudging (C) Crossing (D) Drowned

SPOKEN AND WRITTEN EXPRESSION

Directions (For Q. No. 7 and 8) : Choose the correct option to complete each conversation.

7. Sophia : She danced gracefully at the recital.
Alex : Yes, she moved _____. It was mesmerizing.
(A) vivaciously (B) tardily (C) indolently (D) circuitously
8. Louis : I'm torn between two job offers.
John : Why don't you _____?
(A) weigh the pros and cons of each opportunity
(B) burn the candle at both sides
(C) hit the nail of the head
(D) got the ball rolling

ACHIEVERS SECTION

9. Choose the correct option to fill in the blank.
The CEO insisted that the team _____ the project timeline, but they were _____ by unexpected delays.
(A) expedite, incorporated (B) procrastinate, facilitated
(C) streamline, impeded (D) condense, bolstered
10. Choose the correct synonym of the given word.
Inference
(A) Serene (B) Conclusion (C) Conduction (D) Primitive

ANSWER KEY

1. (A) 2. (B) 3. (B) 4. (D) 5. (B) 6. (B) 7. (A) 8. (A) 9. (C) 10. (B)

Total Questions : 50

Time : 1 hr.

PATTERN & MARKING SCHEME

Section	(1) Logical Reasoning	(2) Science	(3) Achievers Section
No. of Questions	10	35	5
Marks per Ques.	1	1	3

SYLLABUS

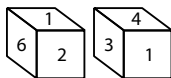
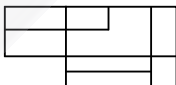
Section – 1 : Verbal and Non-Verbal Reasoning.

Section – 2 : Heat, Motion and Time, Electric Current and its Effects, Light, Acids, Bases and Salts, Physical and Chemical Changes, Nutrition in Plants and Animals, Respiration in Organisms, Transportation in Plants and Animals, Reproduction in Plants, Natural Resources and Their Conservation (Forests: Our Lifeline, Wastewater Story).

Section – 3 : Higher Order Thinking Questions - Syllabus as per Section – 2.

LOGICAL REASONING

- Find the number of rectangles formed in the given figure.
(A) 10 (B) 11
(C) 12 (D) More than 12
- How many degrees will the minute hand rotate when the time changes from 1:42 pm to 2:10 pm?
(A) 158° (B) 238° (C) 143° (D) 168°
- Two different positions of a dice are shown below. Which number will be on the face opposite to the face having number 2?
(A) 5 (B) 1 (C) 4 (D) 3

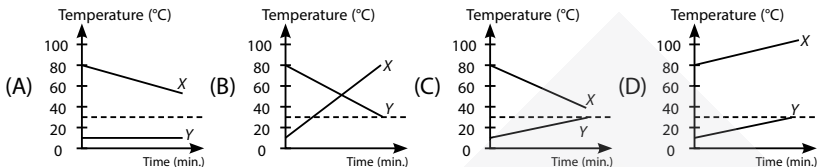
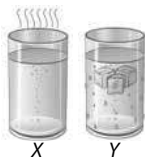


SCIENCE

- Different types of changes are listed as:
P : Physical, irreversible Q : Physical, reversible
R : Chemical, irreversible S : Both physical and chemical
Based on these, select the correct statement from the following.
(A) S can represent burning of candle while P can represent shredding of paper.
(B) P can represent ripening of a fruit while R can represent rusting of iron.
(C) P can represent melting of butter while Q can represent cutting a piece of a paper.
(D) S can represent burning of paper while Q can represent breaking of glass tumbler.
- Which of the following shows the correct path taken by the blood in the human body?
(A) Body parts → Lungs → Heart → Body parts

- (B) Body parts → Heart → Lungs → Body parts
 (C) Body parts → Lungs → Heart → Lungs → Body parts
 (D) Body parts → Heart → Lungs → Heart → Body parts

6. Two identical cups, X and Y are filled with water at different temperatures as shown in the given figures. They are placed in a room which is at a temperature of 30°C. Which one of the following graphs correctly shows the variation in the temperature of the water in the cups over a period of time?



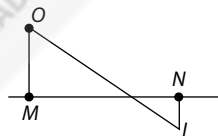
7. Which of the following statements is correct regarding cross-pollination in plants?
 (A) It can occur between bisexual flowers only.
 (B) It does not require any external agents to transfer pollen.
 (C) It is a type of asexual reproduction.
 (D) It produces offspring with more genetic variation.

8. Select the incorrect matches.

- | | | | |
|-------------------|--------------|------------------------|-----------|
| (i) Gastric juice | – Pepsin | (ii) Gall bladder | – Lactase |
| (iii) Bile | – Pancreas | (iv) Hydrochloric acid | – Stomach |
| (v) Maltase | – Oesophagus | (vi) Saliva | – Amylase |
- (A) (ii) and (iii) only
 (C) (ii), (iii) and (v) only
 (B) (iii) and (iv) only
 (D) (i), (ii) and (vi) only

ACHIEVERS SECTION

9. A luminous point object is placed at a point O as shown in the given figure. The image of O is formed at I. Line MN in the figure represents the optical axis.



Which of the following statement(s) is/are correct?

- (i) If a lens is used to obtain the image, then it must be a diverging lens and its optical centre will be the intersection point of lines MN and OI.
 (ii) If a mirror is used to obtain the image, then the mirror must be concave and object and image subtend equal angles at the pole of the mirror.
 (iii) Image I is real in nature.
 (A) (iii) only
 (B) (i) and (ii) only
 (C) (ii) and (iii) only
 (D) (i), (ii) and (iii)

10. Match column I with column II and select the correct option from the given codes.

Column I (Plant)		Column II (Vegetative propagule)
P. <i>Oxalis</i>	(i)	Bulb
Q. Turmeric	(ii)	Runner
R. Garlic	(iii)	Stolon
S. <i>Begonia</i>	(iv)	Rhizome
T. Strawberry	(v)	Adventitious leaf buds
(A) P-(iii), Q-(v), R-(i), S-(ii), T-(iv)		(B) P-(i), Q-(ii), R-(iii), S-(iv), T-(v)
(C) P-(iv), Q-(iii), R-(i), S-(ii), T-(v)		(D) P-(ii), Q-(iv), R-(i), S-(v), T-(iii)

ANSWER KEY

1. (D) 2. (D) 3. (D) 4. (A) 5. (D) 6. (C) 7. (D) 8. (C) 9. (C) 10. (D)

Total Questions : 50

Time : 1 hr.

PATTERN & MARKING SCHEME

Section	(1) Logical Reasoning	(2) Mathematical Reasoning	(3) Everyday Mathematics	(4) Achievers Section
No. of Questions	15	20	10	5
Marks per Ques.	1	1	1	3

SYLLABUS

Section – 1 : Verbal and Non-Verbal Reasoning.

Section – 2 : Integers, Fractions and Decimals, Exponents and Powers, Algebraic Expressions, Simple Equations, Lines and Angles, Comparing Quantities, The Triangle and its Properties, Symmetry, Rational Numbers, Perimeter and Area, Data Handling, Visualising Solid Shapes.

Section – 3 : Syllabus as per Section – 2.

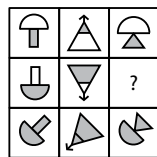
Section – 4 : Higher Order Thinking Questions - Syllabus as per Section – 2.

LOGICAL REASONING

- In a certain code language, if 'ELECTIONS' is written as COCFTGRLV, then how will 'CANDIDATE' be written in the same code language?
(A) HRDBIGLDA (B) EDPGIFDVH (C) ADLGIBDRH (D) HVDFIGPDE
- Which of the following options satisfies the same conditions of placement of dots as in the given figure?



- Which of the following options will complete the given figure matrix?



MATHEMATICAL REASONING

- The value of $\frac{3^4}{2^3} + \frac{\left(\frac{1}{9} \times 4\right)^2}{\left(\frac{-1}{3}\right)^3 \div \left(\frac{1}{-2}\right)^3}$ is

(A) $\frac{81}{24}$

(B) $\frac{259}{24}$

(C) $\frac{81}{8}$

(D) $\frac{259}{8}$

5. Compare and fill the box using $>$, $<$ or $=$.

$$1507 + 1719 - 2305 \quad \square \quad 806 - 967 + 1103$$

(A) $>$

(B) $<$

(C) $=$

(D) Can't be determined

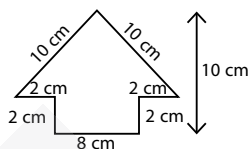
6. Find the area of the given figure (not drawn to scale).

(A) 38 cm^2

(B) 45 cm^2

(C) 52 cm^2

(D) None of these



EVERYDAY MATHEMATICS

7. Raghav had 147 old stamps. He lost $\frac{3}{7}$ of stamps and gave $\frac{2}{7}$ of stamps to his brother. How many stamps are left with him now?
- (A) 42 (B) 49 (C) 52 (D) 59

8. Mitansh put ₹ 350 in his piggy bank on Monday, took out ₹ 175 on Tuesday, put in ₹ 210 on Wednesday and took out ₹ 150 on Thursday. If he had ₹ 1250 already in piggy bank, then how much total money he has now in his piggy bank?
- (A) ₹ 1800 (B) ₹ 1710 (C) ₹ 1485 (D) None of these

ACHIEVERS SECTION

9. Fill in the blanks and select the CORRECT option.

(i) The value of the expression $7x^3 + 9x^2y + 5xy - 6y^3$ when $x = 2$ and $y = -1$, is P.

(ii) If $a = 0$, $b = 2$ and $c = -3$, then the value of $\left(\frac{3}{5}a + b\right)\left(\frac{4}{3}b + c\right)$ is Q.

(iii) If $X = 4p + 2q$ and $Y = 7q - 2p$, then the value of $X + Y$ at $p = -2$ and $q = 1$, is R.

P	Q	R
(A) 10	$-2/3$	-5
(B) 10	$2/3$	3
(C) 16	$-1/3$	-3
(D) 16	$-2/3$	5

10. Which of the following is INCORRECT?

- (A) A circle and a rectangle have the same perimeter. If the sides of the rectangle are 14 cm and 8 cm, then the area of the circle is 154 cm^2 .
- (B) If the height of a triangle is increased by 10% and its base is increased by 20%, then its new area will be increased by 32%.
- (C) The adjacent sides of a parallelogram are 24 m and 12 m. If the length of altitude on the side 12 m is 18 m, then the length of the altitude on the side 24 m is 6 m.
- (D) None of these

ANSWER KEY

1. (C) 2. (C) 3. (C) 4. (B) 5. (B) 6. (D) 7. (A) 8. (C) 9. (D) 10. (C)

Total Questions : 50

Time : 1 hr.

PATTERN & MARKING SCHEME

Section	(1) Logical Reasoning	(2) Computer Science	(3) AI, Robotics and Information Technology	(4) Achievers Section
No. of Questions	10	30	5	5
Marks per Ques.	1	1	1	3

SYLLABUS

Section – 1 : Verbal and Non-Verbal Reasoning.

Section – 2 : Fundamentals of Computer (Hardware, Software, I/O Devices, Introduction to Algorithm & Flow Chart and Its Uses and General Information About Computers), Evolution of Computers, Memory & Storage Devices, Using Windows 11, MS-Word (Links, Mail Merge, Macros, Exploring Styles group), MS-PowerPoint (Working with Slides Master and Themes, Advancing slides using Hyperlink and Actions, Customizing Slide Shows), MS-Excel (Components of MS-Excel window, Editing and formatting cells in a worksheet, Introduction to Formulas, Sorting and filtering data, Macros, Features of Insert and Page layout tabs), Networking and Cyber Safety, HTML & CSS (HTML, Head, Title, Body (Attributes: Background, Bgcolor, Text, Link, Alink, Vlink), Font (Attributes: Color, Size, Face), Center, BR, HR (Attributes: Size, Width, Align, Noshade, Color)), Basic Programming in Scratch.

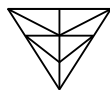
Section – 3 : AI, Robotics, IT gadgets, Devices, Apps, Computerization, and other Developments in the Field of IT.

Section – 4 : Higher Order Thinking Questions - Syllabus as per Sections 2 and 3.

Questions are based on Windows 11 and MS-Office 2016.

LOGICAL REASONING

- Find the missing number which will complete the given number pattern.
16, 20, 27, 37, 50,
(A) 60 (B) 63 (C) 66 (D) 67
- Find the number of triangles formed in the given figure.
(A) 12 (B) 13
(C) 14 (D) More than 14
- In a certain code language, if MONSTER is written as 3@29#57 and LIVED is written as \$465©, then how will MILDEST be written in the same code language?
(A) 3@\$2#57 (B) 34\$©59# (C) 3@29#5\$ (D) 3426#57




COMPUTER SCIENCE

- Which of the following is/are the elements of GUI?
(i) Menus (ii) Icons (iii) Windows
(A) (i) only (B) (ii) only (C) (iii) only (D) (i), (ii) and (iii)


5. Match the options given in Column-I with their descriptions given in Column-II with respect to flowchart.

Column-I


Column-II

(a) 

(i) Used to show direction of flow.

(b) 

(ii) Used for any input/output operation.

(c) 

(iii) Used to invoke a subroutine or an interrupt program.

(d) 

(iv) Used to ask a question that can be answered in a binary format (Yes/No, True/False).

(A) (a) – (iv), (b) – (ii), (c) – (i), (d) – (iii) (B) (a) – (ii), (b) – (i), (c) – (iv), (d) – (iii)

(C) (a) – (ii), (b) – (iv), (c) – (i), (d) – (iii) (D) (a) – (i), (b) – (iv), (c) – (ii), (d) – (iii)

6. Which of the following is not a feature of the second generation of computers?

- (A) The main electronic component of this generation was transistors.
 (B) The assembly language was used.
 (C) Time-sharing and multi-programming operating systems were used.
 (D) Punch cards were used for input and magnetic tapes for storage.

AI, ROBOTICS AND INFORMATION TECHNOLOGY

7. Which feature allows you to use the WhatsApp app on your computer?

- (A) WhatsApp Remote (B) WhatsApp Web
 (C) WhatsApp Desktop (D) WhatsApp Computer

8. Robotics is a branch of engineering and computer science that involves the concept, design, manufacture and operation of robots. The objective of this field is _____.

- (A) To create machines that can assist humans in a variety of ways
 (B) To make human workers job-less
 (C) To perform very simple tasks
 (D) Both (B) and (C)

ACHIEVERS SECTION

9. A/An _____ is a type of computer program that directly executes instructions written in programming language and does not require compilation into a machine language program.

- (A) Compiler (B) Assembler (C) Binary (D) Interpreter

10. Which of the following built-in options of Windows 11, allows users to remove files that are no longer needed by scanning hard drive for unnecessary files including temporary files and helps to speed up and improve the performance of the hard drive and computer?

(A) 

(B) 

(C) 

(D) 

ANSWER KEY

1. (C) 2. (D) 3. (B) 4. (D) 5. (C) 6. (C) 7. (B) 8. (A) 9. (D) 10. (B)

Total Questions : 50

Time : 1 hr.

PATTERN & MARKING SCHEME

Section	(1) History	(2) Geography	(3) Social and Political Life	(4) Achievers Section
No. of Questions	20	15	10	5
Marks per Ques.	1	1	1	3

SYLLABUS

Section – 1 : History – Sources of Medieval Indian History, New Kings and Kingdoms, The Delhi Sultanate and the Mughal Empire, Mobile and Settled Communities, Bhakti Movement, Sufism and Regional Cultures, New Political Formations in the Eighteenth Century

Section – 2 : Geography – Earth and Our Environment, Air and Water, Human-Environment Interactions (Life in the Tropical and the Sub-tropical Regions, Deserts)

Section – 3 : Social and Political Life – Democracy and Equality, State Government, Unpacking Gender, Understanding Media, Markets Around Us

Section – 4 : Higher Order Thinking Questions-Syllabus as per Section – 1, 2 & 3.

- To which dynasty Dantidurga belonged?
(A) Paramara (B) Chandela (C) Chera (D) Rashtrakuta
- The terms *dochala* and *chauchala* are associated with
(A) Priests in the temples (B) Tamil literature
(C) Miniature paintings of Rajasthan (D) Roofs of temples.
- During the sixteenth century, many Rajput rulers had accepted the suzerainty of the Mughals. Which among the following was the only state which defied their authority?
(A) Bundi (B) Alwar (C) Jodhpur (D) Mewar
- Why is there a competition among the shops in the weekly markets?
(A) They sell products at a higher cost.
(B) They sell products in bulk amount.
(C) There are many shops that sell the same goods.
(D) They handle large number of customers at the same time.
- 'Deciding not to hire or promote someone, treating employees differently, or paying them less based on their gender' is an example of _____.
(A) Untouchability (B) Stereotype
(C) Discrimination (D) Prejudice
- Endogenic forces originate from within the Earth and cause horizontal and vertical movements. Which of the following is not a cause of endogenic force?
(A) Earthquakes (B) Building mountains
(C) Volcanoes (D) Glaciers

7. Complete the given analogy by selecting the correct option.

Ladakh : Yak :: Sahara : _____

- (A) Bison (B) Hyena (C) Otter (D) Sloth
8. Suppose, a rocket has been launched that reached at the height of 98 km. In which layer of atmosphere, it is present now?
- (A) Mesosphere (B) Exosphere (C) Stratosphere (D) Thermosphere

ACHIEVERS SECTION

9. Refer to the names of few ocean currents given in the box below.

(i) Kuroshio	(ii) Labrador
(iii) Benguela	(iv) Agulhas
(v) California	(vi) Oyashio

How many of them flow in the Northern hemisphere?

- (A) 3 (B) 6 (C) 4 (D) 5
10. Read the given statements and select the correct option.
- Statement I :** There are several instances when the media fails to focus on issues that are significant to our lives.
- Statement II :** In a censorship, the government prevents either a news item, or scenes from a movie, or the lyrics of a song from being shared with the larger public.
- (A) Both statements I and II are true and statement II is the correct explanation of statement I.
- (B) Both statements I and II are true but statement II is not the correct explanation of statement I.
- (C) Statement I is true but statement II is false.
- (D) Both the statements I and II are false.

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ANSWER KEY

1. (D) 2. (D) 3. (D) 4. (C) 5. (C) 6. (D) 7. (B) 8. (D) 9. (C) 10. (B)

कुल प्रश्न : 50

समय : 1 घंटा

पैटर्न तथा अंक योजना			
खंड	(1) शब्द और व्याकरण बोध	(2) रचनात्मक बोध	(3) मेधावी खंड
प्रश्नों की संख्या	35	10	5
अंक प्रति प्रश्न	1	1	3

पाठ्यक्रम

खंड-1: भाषा-विचार, वर्ण-विचार, शब्द एवं वाक्य, संधि एवं समास, शब्द-भंडार, उपसर्ग एवं प्रत्यय, संज्ञा, सर्वनाम एवं विशेषण, काल, क्रिया एवं कारक, लिंग एवं वचन, अविकारी शब्द, अशुद्धि संशोधन एवं विराम-चिह्न, गिनती एवं महीनों के नाम, भारतीय साहित्य एवं संस्कृति

खंड-2: अपठित गद्यांश, अपठित पद्यांश, मुहावरे एवं लोकोक्तियाँ

खंड-3: उच्चतर क्रम सोच कौशल आधारित प्रश्न— खंड 1 और 2 के पाठ्यक्रम के अनुसार

शब्द और व्याकरण बोध

- संविधान में हिंदी को राजभाषा का दर्जा _____ को दिया गया।
(क) 14 सितंबर, 1950 (ख) 14 सितंबर, 1949
(ग) 15 अगस्त, 1947 (घ) 26 जनवरी, 1950
- निम्नलिखित में से 'उज्ज्वल' शब्द किन वर्णों के संयोजन से बना है?
(क) ऊ + ज् + ज् + व् + अ + ल् + अ (ख) उ + ज् + ज् + व् + अ + ल् + आ
(ग) उ + ज् + ज् + व् + अ + ल् + अ (घ) ऊ + ज् + ज् + व् + आ + ल् + आ
- निम्नलिखित में से 'दिगंबर' का संधि-विच्छेद कौन-सा है?
(क) दिगं + बर (ख) दिग + अंबर (ग) दिक् + अंबर (घ) दिगा + अंबर
- निम्नलिखित में से _____ शब्द जातिवाचक संज्ञा शब्द नहीं है।
(क) पुरुष (ख) फल (ग) मनुष्य (घ) भारत
- 'मेरी माँ स्वादिष्ट खाना बना रही हैं।' इस वाक्य में कौन-सा काल है?
(क) वर्तमान काल (ख) भूतकाल (ग) भविष्यत काल (घ) इनमें से कोई नहीं
- निम्नलिखित में से कौन-सा क्रियाविशेषण का भेद नहीं है?
(क) स्थानवाचक (ख) भाववाचक (ग) रीतिवाचक (घ) परिमाणवाचक

रचनात्मक बोध

निम्नलिखित पद्यांश को पढ़कर प्रश्न संख्या 7 और 8 के उत्तर दीजिए—
चला गया जो समय लौटकर, कभी नहीं फिर आता,
सदा समय को खोने वाला, कर मल-मल पछताता।

जिसने इसे न माना, इसको जिसने भी ठुकराया,
लाख यत्न करने पर भी, हाथ न उसके आया।
हो जाता है एक घड़ी के लिए जन्म भर रोना,
समय बहुत ही मूल्यवान है, व्यर्थ कभी मत खोना।
धन खो जाता, श्रम करने से फिर मनुष्य है पाता,
स्वास्थ्य बिगड़ जाने पर, उपचारों से है बन जाता।
विद्या खो जाती, फिर भी पढ़ने से है आ जाती,
लेकिन खो जाने से मिलती नहीं समय की थाती।
जीवन भर भटको, छानो, दुनिया का कोना-कोना,
समय बहुत ही मूल्यवान है, व्यर्थ कभी मत खोना।

7. समय को खोने वाला क्या करता है?

- (क) हाथ मल-मलकर पछताता रह जाता है। (ख) दुनिया में भटकता रहता है।
(ग) लाख यत्न करता है। (घ) (क) और (ख) दोनों

8. दिए गए पद्यांश के अनुसार क्या खोने पर दोबारा प्राप्त हो जाता है?

- (क) मूल्य (ख) समय (ग) दुनिया (घ) धन और विद्या

मेधावी खंड

9. समास के भेदों के आधार पर उचित विकल्प का चयन कीजिए—

- (अ) माता-पिता (i) द्विगु समास
(ब) नवरत्न (ii) द्वंद्व समास
(स) देशभक्ति (iii) अव्ययीभाव समास
(द) बेशक (iv) तत्पुरुष समास
(क) (अ)-(iii), (ब)-(ii), (स)-(i), (द)-(iv)
(ख) (अ)-(iv), (ब)-(ii), (स)-(iii), (द)-(i)
(ग) (अ)-(ii), (ब)-(iii), (स)-(iv), (द)-(i)
(घ) (अ)-(ii), (ब)-(i), (स)-(iv), (द)-(iii)

10. कॉलम I का कॉलम II से मिलान कर उचित विकल्प का चयन कीजिए—

- | कॉलम I | कॉलम II |
|--|--|
| (अ) स्वर | (i) इनके उच्चारण में हवा नाक और मुख दोनों से निकलती है। |
| (ब) व्यंजन | (ii) इनका प्रयोग केवल संस्कृत के तत्सम शब्दों में होता है। |
| (स) विसर्ग | (iii) इनके उच्चारण के लिए स्वरों की सहायता लेनी पड़ती है। |
| (द) अनुनासिक | (iv) ये स्वतंत्र होते हैं। |
| (क) (अ)-(iv), (ब)-(iii), (स)-(ii), (द)-(i) | |
| (ख) (अ)-(i), (ब)-(iii), (स)-(ii), (द)-(iv) | |
| (ग) (अ)-(ii), (ब)-(iii), (स)-(iv), (द)-(i) | |
| (घ) (अ)-(iv), (ब)-(ii), (स)-(iii), (द)-(i) | |

उत्तर कुंजी

1. (ख) 2. (ग) 3. (ग) 4. (घ) 5. (क) 6. (ख) 7. (क) 8. (घ) 9. (घ) 10. (क)



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