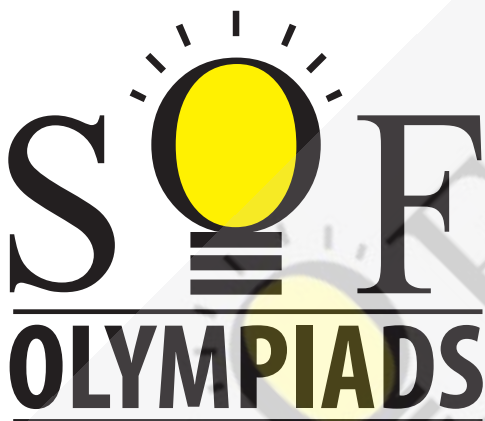


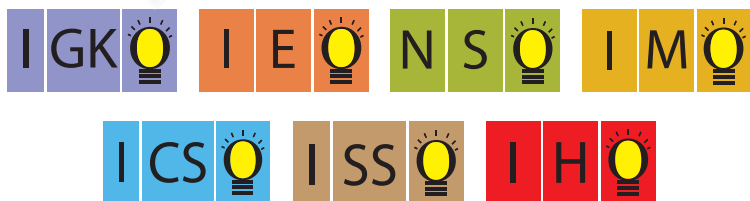
CLASS

5



# 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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**8**  
Olympiads

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# About SOF Olympiads\*

	IGKQ	IEQ	NSQ	IMQ	ICSQ	ISSQ	IHQ	ICQ	IEQ	NSQ	IMQ
	Level 1										
Duration	60 Minutes										
Test Center	Your School										
Eligibility	All students										
Classes	1-10	1-12	1-12	1-12	1-10	3-10	3-10	11 & 12			
Type of Test	OBJECTIVE TYPE. MCQs - MULTIPLE CHOICE QUESTIONS (CLASSWISE NO. OF QUESTIONS ARE GIVEN BELOW)										
Classes 1-4	35	35	35	35	35	35	35	-			
Classes 5-12	50	50	50	50	50	50	50	50			
Sections	4	4	3	4	4	2/4/5	3	4			
	<ul style="list-style-type: none"><li>• General Awareness</li><li>• Current Affairs</li><li>• Life Skills</li><li>• Achievers Section</li></ul>	<ul style="list-style-type: none"><li>• Word and Structure Knowledge</li><li>• Reading</li><li>• Spoken and Written Expression</li><li>• Achievers Section</li></ul>	<ul style="list-style-type: none"><li>For Classes 1-10<ul style="list-style-type: none"><li>• Logical Reasoning</li><li>• Science</li><li>• Achievers Section</li></ul></li><li>For Classes 11 &amp; 12<ul style="list-style-type: none"><li>• Physics &amp; Chemistry</li><li>• Achievers Section</li><li>• Mathematics or Biology</li></ul></li></ul>	<ul style="list-style-type: none"><li>For Classes 1-10<ul style="list-style-type: none"><li>• Logical Reasoning</li><li>• Mathematical Reasoning</li><li>• Everyday Mathematics</li><li>• Achievers Section</li></ul></li><li>For Classes 11&amp;12<ul style="list-style-type: none"><li>• Logical Reasoning</li><li>• Mathematical Reasoning or Applied Mathematics</li><li>• Everyday Mathematics</li><li>• Achievers Section</li></ul></li></ul>	<ul style="list-style-type: none"><li>For Classes 1-5<ul style="list-style-type: none"><li>• Logical Reasoning</li><li>• Computer Science</li><li>• Information Technology</li><li>• Achievers Section</li></ul></li><li>For Classes 6-10<ul style="list-style-type: none"><li>• Logical Reasoning</li><li>• Computer Science</li><li>• AI, Robotics and Information Technology</li><li>• Achievers Section</li></ul></li></ul>	<ul style="list-style-type: none"><li>For Classes 3 - 6<ul style="list-style-type: none"><li>• Social Studies</li><li>• Achievers Section</li></ul></li><li>For Classes 7 &amp; 8<ul style="list-style-type: none"><li>• History</li><li>• Geography</li><li>• Social and Political Life</li><li>• Achievers Section</li></ul></li><li>For Classes 9 &amp; 10<ul style="list-style-type: none"><li>• History</li><li>• Geography</li><li>• Political Science</li><li>• Economics</li><li>• Achievers Section</li></ul></li></ul>	<ul style="list-style-type: none"><li>• शब्द और व्याकरण बोध</li><li>• रचनात्मक बोध</li><li>• मेधावी खंड</li></ul>	<ul style="list-style-type: none"><li>• Economics</li><li>• Business Studies</li><li>• Accountancy</li><li>• Achievers Section</li></ul>	<ul style="list-style-type: none"><li>• Word and Structure Knowledge</li><li>• Reading</li><li>• Achievers Section</li></ul>	<ul style="list-style-type: none"><li>For Classes 3 -10<ul style="list-style-type: none"><li>• Science</li><li>• Achievers Section</li></ul></li><li>For Classes 11 &amp; 12<ul style="list-style-type: none"><li>• Physics &amp; Chemistry</li><li>• Achievers Section</li><li>• Mathematics or Biology</li></ul></li></ul>	<ul style="list-style-type: none"><li>For Classes 3 -10<ul style="list-style-type: none"><li>• Mathematics</li><li>• Achievers Section</li></ul></li><li>For Classes 11 &amp; 12<ul style="list-style-type: none"><li>• Mathematics</li><li>• Mathematical Reasoning or Applied Mathematics</li><li>• Achievers Section</li></ul></li></ul>



## 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**  
**GCSS**

**Girl Child  
Scholarship  
Scheme  
2025-26**



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



## Final Level - Scholarships and Awards

Level	Category	Award	Additional Recognition	Numbers
<b>Level 2</b> (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
<b>Level 1</b> (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
<b>Level 1</b> (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
<b>Level 2</b> (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](http://www.sofworld.org) **Note:** TDS as applicable will be deducted.

# Guidelines



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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](https://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](https://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 8<sup>th</sup> 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](https://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**

Our Body and Health, Plants and Animals, India and the World, Science and Technology, Environment and its Conservation, Language and Literature, Entertainment, Sports, Maths Fun, Life Skills (Moral Values, Flexibility, Emotional Intelligence, Decision Making, Team Work, Leadership, Time Management), Current Affairs.

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

1. Which of the following diseases is characterised by reduced bone density and an increased risk of fractures?

(A) Marasmus

(B) Kwashiorkor

(C) Osteoporosis

(D) Hyponatremia

2. Whose birthday is observed as the 'International Day of Non-violence'?

(A)



Nelson Mandela

(B)



Mahatma Gandhi

(C)



Mother Teresa

(D)



Rabindranath  
Tagore

3. Which dance form of Kerala is known for its elaborate make-up and costumes?

(A) Kuchipudi

(B) Kathakali

(C) Odissi

(D) Bharatanatyam

4. Which type of simple machine is a doorknob?

(A) Lever

(B) Pulley

(C) Wheel and axle

(D) Screw

5. Who among the following is a famous sarod player?

(A)



Amjad Ali Khan

(B)



Zakir Hussain

(C)



Ustad Bismillah  
Khan

(D)



Pandit Ravi  
Shankar

6. Complete the given analogy by selecting the correct option.  
 Acrophobia : Fear of heights :: Claustrophobia : \_\_\_\_\_  
 (A) Fear of darkness (B) Fear of closed spaces  
 (C) Fear of germs (D) Fear of ghosts

7. Who is the current Prime Minister of Thailand?



Paetongtarn  
Shinawatra



Ibrahim  
Mohamed Solih



Fumio Kishida

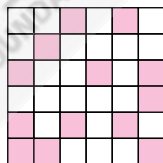
(D) None of these

8. Which of these is not a good listening skill?  
 (A) Interrupting the speaker  
 (B) Paying attention to the speaker  
 (C) Facing the speaker and having eye contact with him/her  
 (D) All of these

### ACHIEVERS SECTION

9. What is the least number of squares that must be shaded so that the given figure has exactly one line of symmetry?

- (A) 6  
 (B) 7  
 (C) 5  
 (D) None of these



10. Which of the following cannot be found in the given word grid?

- (A) A game played on horseback between two teams of four players each  
 (B) A combat sport which involves fighting with fists  
 (C) A popular cue sport played with 22 balls  
 (D) None of these

R	I	T	P	B	C	F	O
A	P	P	O	R	H	B	C
C	R	I	L	O	E	O	K
K	A	N	O	L	S	X	E
B	A	N	D	Y	S	I	Y
I	E	N	N	I	S	N	O
H	O	H	O	C	K	G	R
M	T	N	G	E	M	A	N

### ANSWER KEY

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

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, Idioms, Homonyms and homophones, Synonyms, Antonyms, Nouns, Pronouns, Verbs and Phrasal Verbs, Adverbs, Adjectives, Articles, Prepositions, Conjunctions, Punctuation, Tenses, Active-Passive Voice and Reported Speech, etc.

**Section – 2 :** Search for and retrieve information from various text types like News headlines, Messages, Letters, etc., Understand information given in News reports, Time-tables, Messages, etc., Acquire broad understanding of and look for specific information in short texts like messages, menu card dialogues, etc.

**Section – 3 :** Ability to understand situation-based variations in functions like Requests, Refusals, Apologies, 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.  
I hosted a Christmas Eve party where the cooks \_\_\_\_\_ ate before the guests arrived.  
(A) itself (B) yourself  
(C) themselves (D) theirselves
- Choose the part of the sentence that has an error.  
The manager warned me that the next time I was late for work, I would have fired.  
(A) The manager warned me (B) that the next time  
(C) I was late for work, (D) I would have fired.
- Choose the option with correct spelling.  
How do you spell the word that means 'dwarfed varieties of trees and shrubs placed in pots'?  
(A) Bansai (B) Bonsai  
(C) Bonssay (D) Bansoy
- Choose the correct option for the underlined word.  
My younger sister got an opportunity to study at Oxford University.  
(A) Preposition of time (B) Preposition of place  
(C) Preposition of movement (D) Preposition of possession

## READING

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

### The Lion and the Bull

A lion prowled about in a pasture where four bulls were grazing. He tried many times to capture them, but each time he failed. Whenever he came near, the four bulls turned and formed a ring, so that no matter which way the lion approached, he was met by their horns.

One day, however, the bulls had a quarrel and would not speak to one another. Each went alone to a separate part of the pasture to graze. This was the moment the lion had been waiting for. One by one he attacked the bulls and made an end of them. Well fed and contented, the lion thought, those beasts would still be grazing had they remembered:

*"United we stand; divided we fall."*

5. What did the lion try?  
(A) To eat the grass (B) To capture the four bulls  
(C) To fight the bull (D) None of these
6. The lion could not catch the bulls because the bulls \_\_\_\_\_.  
(A) were united (B) ran very fast (C) were very brave (D) none of these

## SPOKEN AND WRITTEN EXPRESSION

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

7. Cathy : What happened to you?  
Laura : Kimmy \_\_\_\_\_ just because she had a bad day.  
(A) bit my nails off (B) bit my head off (C) bit my hair off (D) bit my tongue off
8. Mindy : I know you are eager to go to the UK.  
Sandy : Yes, I am.  
Mindy : But you haven't been accepted yet. So \_\_\_\_\_.  
(A) first come, first served (B) first catch your hare  
(C) first count your eggs (D) first count your sheep

## ACHIEVERS SECTION

Directions (For Q. No. 9 and 10) : Choose the correct option to fill in the blank.

9. My grandfather was in the army, so we had the provision to shop at the \_\_\_\_\_ considerably at lower prices.  
(A) vantage (B) apiary (C) commissary (D) paragon
10. It was a bit easy to write in the exam, but I was a \_\_\_\_\_ when I had to appear for the final interview.  
(A) gloom heart (B) bitter end  
(C) bundle of nerves (D) platter of wise

## ANSWER KEY

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

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 :** Patterns, Analogy and Classification, Geometrical Shapes, Mirror and Water Images, Direction Sense Test, Ranking Test, Alphabet Test, Logical Sequence of Words, Puzzle Test, Coding-Decoding, Clock and Calendar.

**Section – 2 :** Animals, Human Body and Health, Plants, Natural Resources and Indian Heritage, Pollution and Calamities, Earth and Universe, Matter and Materials, Force and Energy.

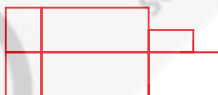
**Section – 3 :** Higher Order Thinking Questions - Syllabus as per Section – 2.

**LOGICAL REASONING**

1. In a certain code language, if 'DETAIL' is coded as 'EDTALI', then how will 'OBJECT' be coded in the same code language?

(A) BOEJTC (B) BOJETC (C) PCJEDU (D) BJOTCE

2. Find the number of rectangles formed in the given figure.



(A) 10 (B) 11 (C) 12 (D) More than 12

3. There is a certain relationship between the pair of terms on the either side of ::. Identify the relationship in the right pair and find the missing term.

SIT : ? :: MUD : LSA

(A) RGQ (B) TKW (C) RKQ (D) TGS

**SCIENCE**

4. Read the given statements regarding an animal X and select the option that correctly identifies it.

- It has flippers.
- It has lungs for breathing.
- It has webbed feet.

(A) Polar bear (B) Penguin (C) Seahorse (D) Eel

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

Rickets : Vitamin D :: \_\_\_\_\_ : Vitamin B<sub>1</sub>

- (A) Beriberi (B) Scurvy (C) Night-blindness (D) Anaemia
6. Seeds of which of the following plants is dispersed by animals?  
(A) Milkweed (B) *Xanthium* (C) Cattail (D) Balsam
7. Refer to the given relationship and select the option that satisfies the same relationship.



- (A) Steering wheel : Crowbar : Knife (B) Nutcracker : Razor blade : Ramp  
(C) Tongs : Screw : Children slide (D) Wheel barrow : Tweezers : Scissors
8. Which among the following is the classical dance form of Andhra Pradesh?  
(A) Bharatanatyam (B) Odissi (C) Kathakali (D) Kuchipudi

### ACHIEVERS SECTION

9. Read the given statements and select the option that correctly identifies them as true (T) and false (F) ones.
- (i) Burning coal is an example of conversion of chemical energy into heat energy.  
(ii) When we swim in a swimming pool, buoyant force acts on our body.  
(iii) When an object vibrates, light energy is produced, which travels in a straight line.  
(iv) If an electric bulb is lit in vacuum, no light rays can be seen.

(i)	(ii)	(iii)	(iv)
(A) T	F	T	F
(B) F	F	T	T
(C) T	T	T	F
(D) T	T	F	F

10. Unscramble the letters given in column I, match them with column II and select the correct option from the given codes.

#### Column I

#### (Hindi names of planet)

- (i) HASKUR  
(ii) RIHIPTV  
(iii) RAABTSIIIPH  
(iv) UVNRA

#### Column II

#### (Feature of planet)

- (a) Takes around 12 years to revolve around the Sun  
(b) Does not have any natural satellite  
(c) About 70% of its surface is covered with water  
(d) Takes around 165 years to revolve around the Sun

- (A) (i)-(d), (ii)-(b), (iii)-(a), (iv)-(c)  
(C) (i)-(a), (ii)-(b), (iii)-(c), (iv)-(d)

- (B) (i)-(b), (ii)-(c), (iii)-(d), (iv)-(a)  
(D) (i)-(b), (ii)-(c), (iii)-(a), (iv)-(d)

### ANSWER KEY

1. (B) 2. (D) 3. (A) 4. (B) 5. (A) 6. (B) 7. (A) 8. (D) 9. (D) 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 :** Patterns, Analogy, Classification, Geometrical Shapes, Mirror and Water Images, Direction Sense Test, Ranking Test, Alphabet Test, Logical Sequence of Words, Puzzle Test, Coding-Decoding, Clock and Calendar.

**Section – 2 :** Numerals, Number Names, Number Sense (7 and 8 digit numbers), Computation Operations, Fractions and Decimals, Measurement of Length, Weight, Capacity, Time, Temperature and Money, Conversions, Angles, Perimeter of Various Shapes & Area of Rectangle and Square, Symmetry, Data Handling.



**Section – 3 :** Syllabus as per Section-2.

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

### LOGICAL REASONING

- Select a figure from the options which is NOT exactly embedded in the given figure as one of its parts.  
(A)  (B)  (C)  (D)  
- Ansh is the father of Tarun. Tarun is the brother of Nidhi and father of Deep. How is Ansh related to Deep?  
(A) Grandfather (B) Father (C) Grandson (D) Uncle
- If the given clock is 32 minutes fast, then what will be the CORRECT time?  
(A) 8 : 22 (B) 7 : 18  
(C) 7 : 28 (D) 8 : 12 

### MATHEMATICAL REASONING

- How many pairs of parallel lines are there in the given figure?  
(A) 2 (B) 1  
(C) 3 (D) 4 
- How many parts of the given figure must be shaded so that  $\frac{2}{5}$  of the figure is unshaded?  
(A) 5 (B) 10  
(C) 15 (D) 20 

6. Which of the following is the GREATEST?  
 (A) HCF of 10 and 30 (B) LCM of 15 and 25  
 (C) First common multiple of 9 and 12 (D) Greatest prime factor of 35

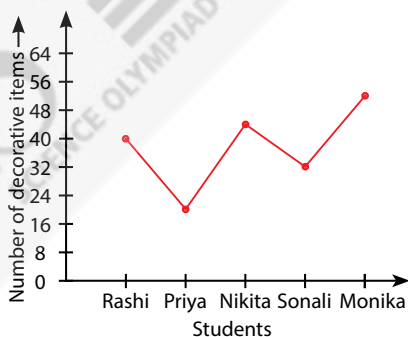
### EVERYDAY MATHEMATICS

7. Amit received an order of 4507890 toy cars to be manufactured in a month. Due to shortage of man power, he could deliver only 3954600 toy cars. How many toy cars has he not delivered?  
 (A) 572170 (B) 453380 (C) 236540 (D) 553290
8. Ritik ran along a square field and covered 576 m in 2 rounds. What was the area of that field?  
 (A) 5184 sq. m (B) 5230 sq. m (C) 5146 sq. m (D) 5460 sq. m

### ACHIEVERS SECTION

9. Read the given statements carefully and select the CORRECT option.  
**Statement-I** : The value of  $97.125 + 47.391 - 25.682$  when rounded off to nearest hundredths place is 119.  
**Statement-II** : If  $a = 38.273$  and  $b = 21.138$ , then the sum of  $a + b$  and  $a - b$  is 76.546.  
 (A) Both Statement-I and Statement-II are true.  
 (B) Both Statement-I and Statement-II are false.  
 (C) Statement-I is true but Statement-II is false.  
 (D) Statement-I is false but Statement-II is true.

10. The given line graph shows the number of different types of decorative items made by five students. Study the given graph carefully and answer the following questions.



- (i) How many less decorative items were made by Nikita than the total number of decorative items made by Priya and Monika together?
- (ii) What fraction of decorative items were made by Rashi and Sonali together to the number of decorative items made by all the students?

- | (i)    | (ii)  |
|--------|-------|
| (A) 28 | 13/47 |
| (B) 30 | 15/31 |
| (C) 28 | 18/47 |
| (D) 30 | 13/31 |

### ANSWER KEY

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



Total Questions : 50

Time : 1 hr.

**PATTERN & MARKING SCHEME**

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

**SYLLABUS**

**Section – 1 :** Patterns, Analogy and Classification, Geometrical Shapes, Mirror and Water Images, Direction Sense Test, Ranking Test, Alphabet Test, Logical Sequence of Words, Puzzle Test, Coding-Decoding, Clock and Calendar.

**Section – 2 :** Fundamentals of Computer (Input and Output Devices, Hardware, Software), Storage Devices, Memory –Primary & Secondary Memory, MS-Paint, Introduction to Multimedia, MS-Word (Paragraph formatting Using Paragraph group, Drop Cap, Document Views, Inserting Graphics-Pictures and Shapes, Screenshots, Symbols, SmartArt, Multimedia Objects, Text Box, Inserting Header and Footer in a document and exploring its features), Introduction to MS-PowerPoint (Component of MS-PowerPoint window and its features, Inserting Graphics-Pictures and Shapes, Screenshots, Symbols, SmartArt, Multimedia Objects, Text Box, Inserting Header & Footer and exploring its features, Running slide shows, Presentation Views), Internet, Computer Networks, Using Windows 11.

**Section – 3 :** 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**

1. In a certain code language, 'LEADER' is written as '#+@\$+%' and 'BOARD' is written as '\*?@%\$'. How will 'ADOBE' be written in the same code language?

(A) @\$+##%

(B) +%?\*##

(C) @\$?\*+

(D) @+?##%

2. Some letters are numbered 1, 2, 3, 4, 5 and 6 as given below. Arrange the given letters to form a meaningful English word and select the correct option.

N I L E O N  
1 2 3 4 5 6

(A) 3, 2, 6, 4, 1, 5

(B) 5, 6, 3, 2, 1, 4

(C) 6, 2, 5, 1, 3, 4

(D) 5, 6, 3, 1, 2, 4

3. There is a certain relationship between the pair of numbers on the either side of ::. Identify the relationship between the given pair and find the missing number.

14 : 39 :: ? : 63





(A) 22

(B) 24

(C) 18

(D) 21

## COMPUTER SCIENCE

4. Which of the following statements hold(s) true regarding internet?  
**Statement 1 :** Hyperlink is used to connect multiple pages on the web.  
**Statement 2 :** URL is the address of a webpage.  
(A) Only Statement 1 (B) Only Statement 2  
(C) Both Statement 1 and Statement 2 (D) Neither Statement 1 nor Statement 2
5. Which of the following devices will NOT be needed, if you want to preview and print the hard copy of the document?
- (1)  (2)  (3)  (4) 
- (A) (1) only (B) (2) only (C) (3) and (4) only (D) (1), (2), (3) and (4)
6. Identify the types of devices referred as X and Y in the given statements.  
X – It is a volatile memory which stores the data, instructions and results of the program currently being executed by the processor and the temporary data which is frequently used.  
Y – It is a non-volatile primary storage and keeps its contents when the computer is turned off.  
(A) X-ROM, Y-RAM (B) X-RAM, Y-ROM (C) X-CD, Y-DVD (D) X-CD, Y-Hard disk

## INFORMATION TECHNOLOGY

7. Which of the following options fall under **biometrics** recognition technique?  
(i) Facial recognition (ii) Eye recognition  
(iii) Voice recognition (iv) Fingerprints recognition  
(A) (i) and (ii) only (B) (iii) and (iv) only  
(C) (i), (ii) and (iii) only (D) (i), (ii), (iii) and (iv)
8. Identify the following.
- It is a network of satellites that help users determine location on earth.
  - It can be used to track the vehicles.
  - It is a space-based satellite navigation system.
- (A) GPS (B) Android (C) Biometric (D) Drone

## ACHIEVERS SECTION

9. Which of the following statements hold(s) true regarding Metropolitan Area Network (MAN)?  
**Statement 1 :** It connects multiple LANs across a large area but is smaller than a WAN.  
**Statement 2 :** It is a computer network that interconnects computers within a limited area such as a residence, a school, a university campus or an office building, etc.  
(A) Only Statement 1 (B) Only Statement 2  
(C) Both Statement 1 and Statement 2 (D) Neither Statement 1 nor Statement 2
10. On the computer screen, which of the following components of multimedia can be used to show a rocket flying in the air?  
(A) Frames (B) Audio (C) Animation (D) Text

## ANSWER KEY

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

Total Questions : 50

Time : 1 hr.

**PATTERN & MARKING SCHEME**

Section	(1) Social Studies	(2) Achievers Section
No. of Questions	45	5
Marks per Ques.	1	3

**SYLLABUS**

**Section – 1 :** Our Earth, Our Environment, Weather and Climate, Our Country, Our Freedom Struggle, Great Achievers, The United Nations, Inventions and Discoveries, Agriculture and Industries, Transport and Communication, Evolution of Mankind

**Section – 2 :** Higher Order Thinking Questions - Syllabus as per Section – 1.

- Which of the following is not a biotic component?  
(A) Air (B) Insects (C) Human beings (D) Fungi
- Who among the following invented the first mechanized printing press?  
(A) Carl Benz (B) Johannes Gutenberg  
(C) Louis Sebastien Mercier (D) Marco Polo
- Where is the headquarters of UNESCO located?  
(A) Paris (B) Rome  
(C) Geneva (D) Saint Petersburg
- The total time taken to draft the Constitution of India was around  
(A) 2 years, 8 months and 10 days (B) 1 year, 11 months and 16 days  
(C) 2 years, 11 months and 18 days (D) 1 year, 3 months and 17 days.
- Who among the following Viceroy of India announced the partition of Bengal?  
(A) Lord Hardinge (B) Lord Ripon  
(C) Lord Curzon (D) Lord Minto
- Which of the following natural disasters can most likely lead to an outbreak of cholera, typhoid, diarrhoea and malaria?  
(A) Flood (B) Drought (C) Forest fire (D) None of these
- Which of the following rivers is known as Highway of Central Africa?  
(A) Nile River (B) Congo River (C) Zambezi River (D) Niger River
- Names of some books are given in the box.

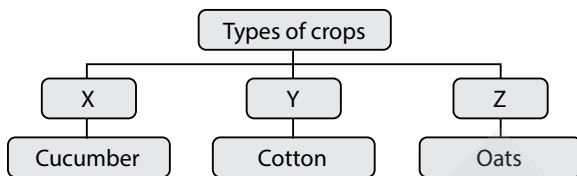
Meghaduta, Raghuvamsa, Abhijnana Shakuntalam

The author of these books is \_\_\_\_\_.

- (A) Kalhana (B) Asvaghosa (C) Kalidasa (D) Harisena

## ACHIEVERS SECTION

9. Refer to the given classification chart and select the option that correctly identifies X, Y and Z.



**X**

**Y**

**Z**

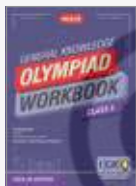
- |            |        |        |
|------------|--------|--------|
| (A) Kharif | Cash   | Rabi   |
| (B) Zaid   | Kharif | Rabi   |
| (C) Rabi   | Cash   | Zaid   |
| (D) Cash   | Food   | Kharif |

10. Read the given statements and select the option that identifies the correct one(s).
- Sir Syed Ahmad Khan was in the favour of modern education for the Muslims.
  - Sushruta and Charaka wrote Charaka Samhita.
  - Rabindranath Tagore was awarded the Nobel Prize for social service in 1913.
  - Rani Lakshmi Bai died in June 1858 while battling with the British in Gwalior.
- (A) (iii) and (iv) only                      (B) (iv) only  
(C) (ii) and (iii) only                      (D) (i) and (iv) only

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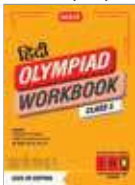
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## ANSWER KEY

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

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 एवं व्याकरण, वर्ण एवं वर्णमाला, शब्द एवं वाक्य, शब्द-भंडार, संज्ञा, सर्वनाम एवं विशेषण, काल, क्रिया एवं कारक, लिंग एवं वचन, अविकारी शब्द, अशुद्धि संशोधन एवं विराम-चिह्न, गिनती, दिनों एवं महीनों के नाम, शब्दकोश एवं सामान्य शब्द, 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**

- \_\_\_\_\_ शब्द द्वित्व व्यंजन का उदाहरण है।  
(क) दिल्ली (ख) प्रज्वलित (ग) अंत्याक्षरी (घ) प्रज्ञाचक्षु
- पर्यायवाची शब्दों के अनुचित विकल्प का चयन कीजिए—  
(क) स्त्री— महिला, नारी, वनिता (ख) सूर्य— मयंक, सुधांशु, इंदु  
(ग) पर्वत— अचल, गिरि, शैल (घ) गणेश— गजानन, लंबोदर, गणपति
- ‘मिठाई’ शब्द में संज्ञा का कौन-सा भेद है?  
(क) व्यक्तिवाचक (ख) जातिवाचक  
(ग) भाववाचक (घ) समूहवाचक
- दिए गए वाक्य में कौन-सा शब्द कर्म है?  
मेरी बड़ी बहन बहुत अच्छा खाना पकाती है।  
(क) बड़ी बहन (ख) बहुत अच्छा  
(ग) खाना (घ) पकाती
- निम्नलिखित में से कौन-सा अविकारी शब्दों का भेद नहीं है?  
(क) क्रियाविशेषण (ख) समुच्चयबोधक  
(ग) विस्मयादिबोधक (घ) विशेषण
- दिए गए वाक्य में रेखांकित शब्द का स्त्रीलिंग रूप बताइए—  
बाल कवि सम्मेलन में दीपक को श्रेष्ठ कवि का पुरस्कार मिला।  
(क) कवयित्री (ख) कवियित्री (ग) कवयित्रि (घ) कवित्री

## रचनात्मक बोध

निम्नलिखित गद्यांश को पढ़कर प्रश्न संख्या 7 और 8 के उत्तर दीजिए—

आज सारा संसार अधिक-से-अधिक धन कमाने की होड़ में लगा हुआ है। अनुचित साधनों द्वारा अर्जित काला धन ही लोगों की वैभवता का माध्यम बन गया है। संसार की संपूर्ण अर्थव्यवस्था दूषित हो गई है। अधिक-से-अधिक धन बटोरने की होड़ मची है। अमीर और अधिक अमीर बन रहा है। गरीब और ज्यादा गरीब होता जा रहा है। आज का मानव इतना स्वार्थी हो गया है कि उसे केवल अपना सुख ही दिखाई देता है। प्राचीनकाल से लेकर आज तक अनेक महापुरुषों ने कहा है कि संतोष धन अर्जित करने में नहीं है, किंतु संतोष संन्यासियों का धन हो सकता है। राष्ट्र-निर्माण में व्यस्त युवकों के लिए तो वह लोहे की जंजीर के समान है, जो उनको आगे बढ़ने से रोकती है। उत्पादन के साधनों का समान वितरण भी जरूरी है। जब समाज में असमानता नहीं होगी, अमीरी-गरीबी के दो ऊँचे-नीचे पर्वत नहीं होंगे, तब असंतोष स्वयं ही नष्ट हो जाएगा।

7. लोगों की वैभवता का साधन क्या है?

- (क) राष्ट्र-निर्माण (ख) अमीरी-गरीबी (ग) काला धन (घ) इनमें से कोई नहीं

8. स्वार्थी मनुष्य को केवल क्या दिखाई देता है?

- (क) अपना धन (ख) अपना समाज (ग) अपना सुख (घ) उपरोक्त सभी

## मेधावी खंड

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

- |              |              |
|--------------|--------------|
| (अ) नीलकंठ   | (i) रूढ़     |
| (ब) हस्त     | (ii) तत्सम   |
| (स) थैला     | (iii) यौगिक  |
| (द) विद्यालय | (iv) योगरूढ़ |
- (क) (अ)-(iii), (ब)-(ii), (स)-(i), (द)-(iv)  
 (ख) (अ)-(iv), (ब)-(ii), (स)-(i), (द)-(iii)  
 (ग) (अ)-(ii), (ब)-(iv), (स)-(i), (द)-(iii)  
 (घ) (अ)-(iv), (ब)-(iii), (स)-(ii), (द)-(i)

10. दी गई हिंदी संख्याओं का उनके सही हिंदी शब्दों से मिलान कर उचित विकल्प का चयन कीजिए—

- |        |             |
|--------|-------------|
| (अ) १७ | (i) उनचास   |
| (ब) २९ | (ii) छत्तीस |
| (स) ४९ | (iii) सत्रह |
| (द) ३६ | (iv) उनतीस  |
- (क) (अ)-(iv), (ब)-(iii), (स)-(i), (द)-(ii)  
 (ख) (अ)-(iii), (ब)-(iv), (स)-(i), (द)-(ii)  
 (ग) (अ)-(i), (ब)-(iv), (स)-(iii), (द)-(ii)  
 (घ) (अ)-(ii), (ब)-(iv), (स)-(i), (द)-(iii)

## उत्तर कुंजी

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



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