



The actual test paper has 50 questions. Time allowed : 60 minutes. There are 3 sections: 15 questions in section I, 30 in section II, and 5 in section III.

SYLLABUS

Section – I (Logical Reasoning) : Verbal and Non-Verbal Reasoning.

Section – II (Computers and IT) : Fundamentals of Computer, Evolution of Computers, Hardware, Software, Input & Output Devices, Memory & Storage Devices, Using Windows, MS-Word, MS-PowerPoint, MS-Excel, Programming in QBASIC, Internet & Viruses, Latest Developments in the field of IT.

Section – III (Achievers Section) : Syllabus as per in Section II.

Questions are based on Windows 7 and MS-Office 2010.



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SYLLABUS

Section – I (Logical Reasoning) : Verbal and Non-Verbal Reasoning

Section – II (Science) : Heat, Motion and Time, Electric Current and its Effect, Winds, Storms and Cyclones, Light, Acids, Bases and Salts, Physical and Chemical Changes, Weather, Climate and Adaptations of Animals, Fibres to Fabrics, Nutrition in Plants and Animals, Respiration in Organisms, Transportation in Plants and Animals, Reproduction in Plants, Natural Resources and Their Conservation.

Section – III (Achievers Section) : Syllabus as per Section II.



The actual test paper has 50 questions. Time allowed : 60 minutes. There are 4 sections: 15 questions in section I, 20 in section II, 10 in section III and 5 in section IV.

SYLLABUS

Section – I (Logical Reasoning) : Verbal and Non-Verbal Reasoning

Section – II (Mathematical Reasoning) : Integers, Fractions and Decimals, Exponents and Powers, Algebraic Expressions, Simple Linear Equations, Lines and Angles, Concept of Percentage, Profit and Loss, Simple Interest, Probability, Properties of Triangle, Symmetry, Congruence of Triangles, Rational Numbers, Perimeter and Area, Data Handling, Arithmetical Ability, Visualising Solid Shapes.

Section – III (Everyday Mathematics) : The Syllabus of this section will be based on the syllabus of Mathematical Reasoning.

Section – IV (Achievers Section) : Syllabus as per Section II.



The actual test paper consists of 50 questions. Time allowed : 60 minutes. There are 4 sections.

SYLLABUS

Section – I (Word and Structure Knowledge) : Perfect tenses, Prepositions, Modals, Adjectives, and Adverbs, Conjunctions, Direct indirect speech, Word order, Phrasal verbs, etc. Spellings, Collocations, Phrasal verbs, Idioms, and Words related to Travel, Locations, Activities, Homonyms and Homophones, etc.

Section – II (Reading) : Search for and retrieve information from various text types like News stories, Brochures and advertisements. Understand information given in news reports, Brochures, Itinerary, etc., Acquire broad understanding of and look for specific information in short narratives, Advertisements, Biographies, etc.

Section – III (Spoken and Written Expression) : Ability to understand situation-based variations in functions like requesting and refusing, Apologies and stating of preferences and expression of intent, etc.

Section – IV (Achievers Section) : Syllabus as per Sections I, II and III.

IN ASSOCIATION WITH





National Cyber Olympiad

LOGICAL REASONING

1. Which of the following options will complete the given series?



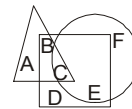
- (A) (B) (C) (D)

2. If TOGETHER is written as RQEGRJCT, how will PAROLE be written?

- (A) NCPQJG (B) NCQPJG (C) RCPQJK (D) RCTQNG

3. In the given figure, the triangle represents girls, square represents sportspersons and circle represents coaches. Which portion of the figure represents girls who are sportspersons but not coaches?

- (A) A
(B) B
(C) C
(D) D

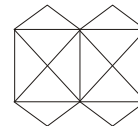


4. Five boys A, B, C, D and E are standing in a row. A is between C and D and B is between D and E. Which of the following pairs represents the boys standing at both the ends?

- (A) C, B (B) E, C (C) E, A (D) A, C

5. What is the number of triangles in this figure?

- (A) 12
(B) 20
(C) 22
(D) 24



6. A man goes towards east five kilometres, then he takes a turn towards right and goes five kilometres. He again takes a turn towards right and goes five kilometres. With respect to the point from where he started, where is he now?

- (A) East (B) North (C) West (D) South

COMPUTERS AND INFORMATION TECHNOLOGY

7. MBP is a short form for a famous high end notebook from Apple. It is called _____.

- (A) Macintosh Book Pro (B) Mac Book Programmable
(C) Mountain Book Pro (D) MacBook Pro

8. You can join an Active Directory domain in which of the following Windows 7 versions?

- (i) Windows Home Edition (ii) Windows Professional Edition
(iii) Windows Ultimate Edition (iv) Windows Enterprise Edition
(A) Only (i) and (ii) (B) Only (iv)
(C) Only (ii), (iii) and (iv) (D) All of these

9. In MS PowerPoint, 'Rehearse timings' is present on the _____ tab.

- (A) Animations (B) Transitions (C) Slide Show (D) All of these

10. The function of 'Wrap Text' icon in MS Excel is used to _____.

- (A) Join selected cells into one larger cell
(B) Rotate text to a diagonal angle
(C) Make all content visible within a cell by displaying it on multiple lines
(D) Highlight interesting cells

11. Match the following terms with what they stand for

Term	Stands for
(i) .com	(a) Education
(ii) .edu	(b) India
(iii) .in	(c) Australia
(iv) .au	(d) Commerce
(A) (i)-(a), (ii)-(b), (iii)-(c), (iv)-(d)	(B) (i)-(b), (ii)-(c), (iii)-(d), (iv)-(a)
(C) (i)-(c), (ii)-(d), (iii)-(a), (iv)-(b)	(D) (i)-(d), (ii)-(a), (iii)-(b), (iv)-(c)

12. A browser is an interactive program that permits a user to view web pages on the computer. The browser performs which of the following services?

- (A) Connecting to the source computer whose address is specified
- (B) Requesting new page from the server
- (C) Receiving new page
- (D) All of these

13. Modern Computers compared to earlier computers are _____.

- (A) Faster and larger
- (B) Less reliable
- (C) Larger and stronger
- (D) Faster and smaller

14. In MS Word, which shortcut key is used to increase the font size of text?

- (A) Ctrl + F
- (B) Ctrl + Alt + F
- (C) Ctrl + Shift + >
- (D) Ctrl + Shift + X

15. In QBasic, what will the given command do?

LET C = A + B

- (A) The string variable C receives the value of A + B.
- (B) The numerical variable C is assigned the value of A + B.
- (C) The string variable C is assigned the expression A + B.
- (D) An error message is displayed.



National Science Olympiad

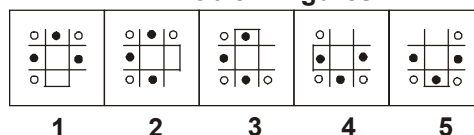
LOGICAL REASONING

1. If '+' means 'x', '-' means '÷', 'x' means '-' and '÷' means '+', then what will be the value of $16 \div 64 - 8 \times 4 + 2 = ?$

- (A) 18 (B) 14 (C) 24 (D) 16

2. Select a figure from the options which will continue the same series as given in the Problem Figures.

Problem Figures



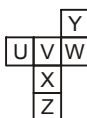
- (A) (B) (C) (D)

3. How many 5's are there in the following sequence such that the sum of the two immediately following digits is greater than the sum of the two immediately preceding digits?

3 7 6 5 8 3 2 4 5 5 4 8 7 9 1 5 3 4 8 7 5 9 8 7 6 4

- (A) One (B) Two (C) Three (D) Four

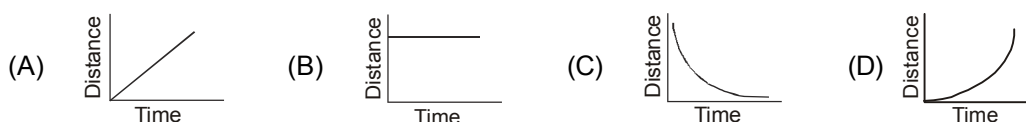
4. Anuradha remembers that her friend had visited her after 13th but before 18th of the month, while Anuradha's sister remembers that Anuradha's friend had visited after 16th but before 20th. If it was Saturday on 16th, of the month, then on which day of the week, Anuradha's friend visit her?
 (A) Saturday (B) Monday (C) Sunday (D) None of these
5. A piece of paper containing six joined squares labelled as shown in the diagram is folded along the edges of the squares to form a cube. The label of the face opposite the face labelled X is _____.



- (A) Z (B) U (C) V (D) Y

SCIENCE

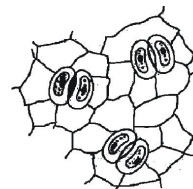
6. A body moves with uniform velocity. Which of the graphs shown here is a graph of distance against time for this motion?



7. X is present in the stomach. However, presence of excess of it causes indigestion, which requires the intake of milk of magnesia to undo the effect of X. What is X?
 (A) HCl (B) H₂SO₄ (C) NaOH (D) KOH.

8. The given parts of the plant help out in

- (A) Photosynthesis
 (B) Respiration
 (C) Transpiration
 (D) All of the above.



9. The increase in area of the solid on heating is called

- (A) Superficial expansion (B) Linear expansion
 (C) Cubical expansion (D) Quadra expansion

10. The temperature at which no more energy can be removed from matter is called

- (A) Absolute zero (B) Boiling point
 (C) 32° F (D) 32°C

11. A lightning conductor is a

- (A) Piece of metallic wire with spikes through which current can flow
 (B) Substance that can be charged by clouds
 (C) Carbon rod
 (D) Plastic rod.

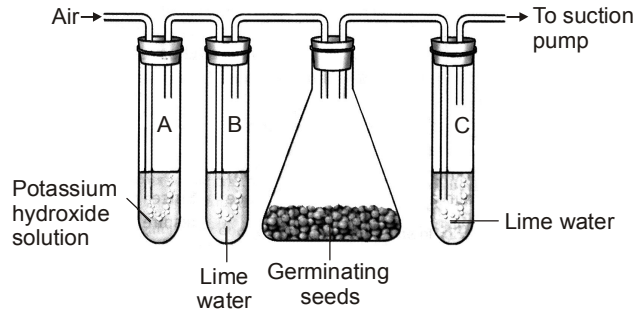
12. Which one of the following is true for all chemical reactions?

- (A) There is a change in volume (B) Heat is evolved
 (C) Chemical bonds are broken or formed (D) There is a change in mass

13. The movement of oxygenated blood from the left auricle to left ventricle and then to aorta to all parts of the body is called

- (A) Extracellular circulation (B) Pulmonary circulation
 (C) Systemic circulation (D) Intracellular circulation

14. Study the given set up of an experiment. You will observe that



- (A) Lime water in test tube B turns milky (B) Lime water in test tube C turns milky
 (C) Potassium hydroxide solution in test tube A turns red
 (D) Temperature in the flask will go down.

15. Which metal is present in the human body in greater percentage ?

- (A) Calcium (B) Sodium (C) Potassium (D) Iron



International Mathematics Olympiad

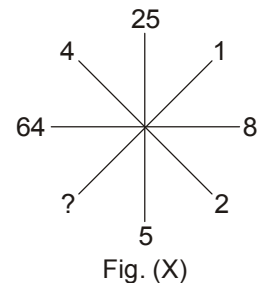
LOGICAL REASONING

1. Which will come next in the series?

- az, by, cx, ___?___
 (A) ef (B) gh (C) ij (D) dw

2. Which number will replace the ? in Fig. (X)?

- (A) 1
 (B) 2
 (C) 3
 (D) 4

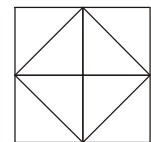


3. Which most closely resembles the mirror image of the given word, if the mirror is placed vertically to the left

- STROKE
 (A) ƆTROƆƎ (B) EKORTS (C) ROKETS (D) ƆROKƎƆ

4. Count the number of triangles in the following figure.

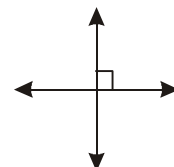
- (A) 8 (B) 10
 (C) 12 (D) 14



MATHEMATICAL REASONING

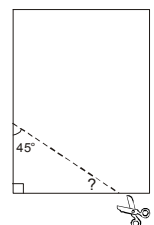
5. Which of the following is best described in the given figure?

- (A) Acute angles (B) Obtuse angles
 (C) Parallel lines (D) Perpendicular lines



6. Nina made a triangle by cutting the corner of a sheet of paper. One angle is 45° . What is the measure of the third angle of Nina's triangle?

- (A) 30° (B) 45°
 (C) 55° (D) 60°



7. The value of $4\frac{3}{4} - 2\frac{1}{2} =$

(A) $1\frac{1}{4}$

(B) $1\frac{3}{4}$

(C) $2\frac{1}{4}$

(D) $2\frac{3}{4}$

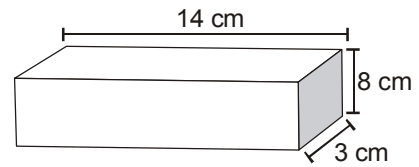
8. This rectangular prism has a length of 14 cm, a height of 8 cm, and a width of 3 cm. What is the volume?

(A) 25 cu cm

(B) 42 cu cm

(C) 112 cu cm

(D) 336 cu cm



9. Which expression represents the product of n and 25?

(A) $25n$

(B) $25 - n$

(C) $25 + n$

(D) $25 \div n$

10. What is the prime factorization of 45?

(A) $2^3 \times 5$

(B) $3^2 \times 5$

(C) $5^2 \times 3$

(D) $5^2 \times 9$

11. The value of $11.3 \times 2.7 =$

(A) 29.31

(B) 29.51

(C) 30.31

(D) 30.51

12. Mohit gains 60 paise on ₹ 60. His gain percent is _____.

(A) 1%

(B) 0.1%

(C) 2%

(D) 1.1%

EVERYDAY MATHEMATICS

13. Kartik can throw a ball $50\frac{3}{5}$ metres high. Ayan can throw the same ball $48\frac{1}{3}$ metres high. How much farther can Kartik throw the ball than Ayan?

(A) $2\frac{2}{15}$ m

(B) $2\frac{4}{15}$ m

(C) $2\frac{3}{5}$ m

(D) $2\frac{4}{5}$ m

14. In a parking lot, 1 out of every 8 cars is blue. What percent of the cars in this lot are blue?

(A) 1.25%

(B) 7%

(C) 9%

(D) 12.5%

15. A duck flew at 18 km per hour for 3 hours, then at 15 km per hour for 2 hours. How far did the duck fly in all? (Speed = $\frac{\text{Distance}}{\text{Time}}$)

(A) 69 km

(B) 75 km

(C) 81 km

(D) 84 km



International English Olympiad

WORD AND STRUCTURE KNOWLEDGE

Direction (Q. No. 1 and 2) : Choose one suitable word for each blank.

1. Someone who interprets is _____.

(A) An interpretist

(B) An interpreter

(C) An interprecian

(D) An interpretor

2. Many diamond mines are _____ in South Africa.

(A) Situation

(B) Situate

(C) Situated

(D) Situating

3. Choose the odd one out.

(A) Disappear

(B) Dissolve

(C) Dissatisfy

(D) Disallow

4. Find the correct phrase.

(A) Slow and study

(B) Slow and steady

(C) Slow and fast

(D) Slow and heady

5. All children did well in the marathon but Rahul was _____.

(A) The faster

(B) Fast

(C) Fastest

(D) The fastest

6. Find the incorrect part and mark it in your answer sheet.
 "The prisoner/ never told me, Sir." / Watson complains. No Error
 (A) (B) (C) (D)
-
7. Complete the conversation with the correct word.
 Ravi: Did you invite her to the party?
 Rahul: Well! Being invited is one thing _____ inviting oneself is another.
 (A) However (B) Whereas (C) Compared to (D) Besides
-
8. In which sentence is the word 'to' correctly used?
 (A) This watermelon is to heavy. (B) Hold it with to hands.
 (C) It's very slippery to. (D) Well, hand it to me.

READING

Direction (Q. No. 9 to 11) : Read the passage and answer the following questions.

"There is always someone worse off than you."

Once upon a time, the rabbits of Jim Corbett were so terrorized by the other animals, they did not know where to go. As soon as they saw a single animal approach them, off they used to run. One day, they saw a troop of wild horses stampeding about and in quite a panic all the rabbits scuttled off to a lake close by, determined to drown themselves rather than live in a continual state of fear. But just as they got near the bank of the lake, a troop of frogs frightened in their turn by the approach of the rabbits, scuttled off and jumped into the water. "Truly", said one of the rabbits, "things are not so bad as they seem." There is always someone worse off than you.

9. Rabbits wanted to drown themselves because
 (A) They were scared of the horses. (B) They did not like living under fear.
 (C) They were chasing the frogs. (D) They had nowhere to go.
-
10. Rabbits ran away from other animals because _____.
 (A) They wanted to drown themselves. (B) They were shy.
 (C) They were scared of being stepped on. (D) They were arrogant.
-
11. Which of the following words would you use to describe the feeling of the rabbits on seeing the troop of wild horses?
 (A) Frightened (B) Unfriendly (C) Worried (D) Hostile

SPOKEN AND WRITTEN EXPRESSION

Direction (Q. No. 12 and 13) : Find one sentence to complete the dialogue.

12. Dimpy : Shahid is always bullying me. Do you think I should complain to the teacher?

Radha : _____.

- (A) Don't. Talk to Shahid first. (B) I think you should tell Shahid.
 (C) Write him a letter. (D) Don't let him yell at you.
-

13. Manasa : I hear that you are going to a new school.

Minu : Oh, you heard about it! _____.

- (A) I should have told you earlier. (B) I'm sure you are happy.
 (C) I'm happy I did not tell you earlier. (D) Why are you asking?
-

Direction (Q. No. 14 and 15) : Find one sentence to complete the paragraph.

14. Sentence 1. God wanted the people he had created to have a happy life.

Sentence 2. _____.

Sentence 3. Water, air and sunlight were, therefore, given in abundance.

- (A) That's why he decided to bless the earth with riches.
 (B) People had to live with water, air, and sun.
 (C) Earth could have them in abundance.
 (D) Therefore, he created the earth.
-

15. Sentence 1. From ancient times Indians have worshipped plants and trees.

Sentence 2. _____.

Sentence 3. While modern man often works to 'conquer' Nature, ancient Indians worshipped her.

- (A) They regarded all flora and fauna as sacred.
 (B) These plants give us food and oxygen.
 (C) They lend beauty to our surroundings.
 (D) These plants sacrifice themselves to serve us.
-

SAMPLE ANSWER SHEET

1. **NAME** : If your name is SACHIT AIYER, then you should write as follows :

S	A	C	H	I	T	A	I	Y	E	R												
---	---	---	---	---	---	---	---	---	---	---	--	--	--	--	--	--	--	--	--	--	--	--

2. **FATHER'S NAME** : If your father's name is SATISH KUMAR IYER, then you should write as follows :

S	A	T	I	S	H	K	U	M	A	R	I	Y	E	R								
---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--	--	--	--	--	--	--	--

SCHOOL CODE

M	H	0	5	4	7
A	A	●	0	0	0
B	B	1	1	1	1
C	C	2	2	2	2
D	D	3	3	3	3
E	E	4	4	4	4
F	F	5	●	5	5
G	G	6	6	6	6
H	●	7	7	7	●
I	I	8	8	8	8
J	J	9	9	9	9
K	K				
L	L				
●	M				
N	N				
O	O				
P	P				
Q	Q				
R	R				
S	S				
T	T				
U	U				
V	V				
W	W				
X	X				
Y	Y				
Z	Z				

3. SCHOOL CODE

Write your school code i.e. if your school code is MH0547 darken as follows :

Darken the circle

4. CLASS

If you are in Class 10, then you should darken as follows :

5. ROLL NO.

If your roll no. is 587, then you should write and darken the circles as follows :

CLASS			ROLL NO.		
1	0	5	8	7	
0	●	0	0	0	0
1	1	1	1	1	1
2	2	2	2	2	2
3	3	3	3	3	3
4	4	4	4	4	4
5	5	●	5	5	5
6	6	6	6	6	6
7	7	7	7	●	7
8	8	8	●	8	8
9	9	9	9	9	9

Darken the circle

6. GENDER

If you are a boy, then darken Male circle

GENDER	
MALE ●	FEMALE ○

CORRECT way to darken the circle

WRONG way to darken the circle

7. If your choice for Answer 1 is C, then you should darken the circle as follows :

1. (A) (B) ● (D)

MARK YOUR ANSWERS WITH HB PENCIL/BALL POINT PEN (BLUE/BLACK)

National Cyber Olympiad

- | | | | | |
|---------------------|---------------------|---------------------|---------------------|---------------------|
| 1. (A) (B) (C) (D) | 2. (A) (B) (C) (D) | 3. (A) (B) (C) (D) | 4. (A) (B) (C) (D) | 5. (A) (B) (C) (D) |
| 6. (A) (B) (C) (D) | 7. (A) (B) (C) (D) | 8. (A) (B) (C) (D) | 9. (A) (B) (C) (D) | 10. (A) (B) (C) (D) |
| 11. (A) (B) (C) (D) | 12. (A) (B) (C) (D) | 13. (A) (B) (C) (D) | 14. (A) (B) (C) (D) | 15. (A) (B) (C) (D) |

National Science Olympiad

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| 1. (A) (B) (C) (D) | 2. (A) (B) (C) (D) | 3. (A) (B) (C) (D) | 4. (A) (B) (C) (D) | 5. (A) (B) (C) (D) |
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International Mathematics Olympiad

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| 1. (A) (B) (C) (D) | 2. (A) (B) (C) (D) | 3. (A) (B) (C) (D) | 4. (A) (B) (C) (D) | 5. (A) (B) (C) (D) |
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International English Olympiad

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|---------------------|---------------------|---------------------|---------------------|---------------------|
| 1. (A) (B) (C) (D) | 2. (A) (B) (C) (D) | 3. (A) (B) (C) (D) | 4. (A) (B) (C) (D) | 5. (A) (B) (C) (D) |
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ANSWERS

National Cyber Olympiad	National Science Olympiad	International Mathematics Olympiad	International English Olympiad
1. (A) 2. (A) 3. (B) 4. (B) 5. (C) 6. (D) 7. (D) 8. (C) 9. (C) 10. (C) 11. (D) 12. (D) 13. (D) 14. (C) 15. (B)	1. (D) 2. (D) 3. (C) 4. (C) 5. (D) 6. (A) 7. (A) 8. (D) 9. (A) 10. (A) 11. (A) 12. (C) 13. (C) 14. (B) 15. (A)	1. (D) 2. (A) 3. (D) 4. (C) 5. (D) 6. (B) 7. (C) 8. (D) 9. (A) 10. (B) 11. (D) 12. (A) 13. (B) 14. (D) 15. (D)	1. (B) 2. (C) 3. (B) 4. (B) 5. (D) 6. (C) 7. (B) 8. (D) 9. (B) 10. (C) 11. (A) 12. (A) 13. (A) 14. (A) 15. (A)