



NATIONAL CYBER OLYMPIAD

The actual test paper has 35 questions. Time allowed : 60 minutes. There are 3 sections: 10 in section I, 20 in section II and 5 in section III.

SYLLABUS

Section – I (Logical Reasoning) : Patterns, Analogy and Classification, Coding-Decoding, Mirror Images, Embedded Figures, Alphabet Test, Ranking Test, Grouping of Figures, Figure Matrix, Geometrical Shapes, Days and Dates & Possible Combinations.

Section – II (Computers and IT) : Fundamentals of Computer, General Information about Computers, Storage Devices, Parts of Computer, Uses of Computer, Input and Output Devices, Introduction to Internet, MS-Paint, Introduction to MS-Word, Latest Developments in the field of IT.

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

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



NATIONAL SCIENCE OLYMPIAD

The actual test paper has 35 questions. Time allowed : 60 minutes. There are 3 sections: 10 questions in section I, 20 in section II and 5 in section III.

SYLLABUS

Section – I (Logical Reasoning) : Patterns, Analogy and Classification, Coding-Decoding, Mirror Images, Embedded Figures, Alphabet Test, Ranking Test, Grouping of Figures, Figure Matrix, Geometrical Shapes, Days and Dates & Possible Combinations.

Section – II (Science) : Plants and Animals, Human Body, Water, Food, House and Occupation, Transport and Communication, Matter and Materials, Earth and Universe, Birds, Light, Sound and Force.

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



INTERNATIONAL MATHEMATICS OLYMPIAD

The actual test paper has 35 questions. Time allowed : 60 minutes. There are 4 sections: 10 questions in section I, 10 in section II, 10 in section III and 5 in section IV.

Section – I : Logical Reasoning **Section – II** : Mathematical Reasoning

Section – III : Everyday Mathematics

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

SYLLABUS

Numerals and Number Name, Number Sense (4 digit numbers), Addition, Subtraction, Multiplication, Division, Fractions, Money, Length (conversions), Weight, Capacity, Time, Point, Problems Based on Figures, Odd One Out, Patterns, Series Completion, Coding-Decoding, Mirror Images, Embedded Figures, Straight Lines and Curved Lines, Geometrical Shapes.



INTERNATIONAL ENGLISH OLYMPIAD

The actual test paper consists of 35 questions. Time allowed : 60 minutes. There are 4 sections.

SYLLABUS

Section-I (Word and Structure Knowledge) : Adverbs, Prepositions, Pronouns (possessive, demonstrative, etc.), Simple tenses, Irregular verbs, Modals (of ability and permission, etc.), Basic questions, etc. Collocations, Spellings, Words related to animals, Household things, Clothes, Basic emotions, Food, Animals and Pets, etc.

Section-II (Reading) : Search for and retrieve information from various text types like stories, Anecdotes, etc. Understand information through pictures, Time-table format, etc., Acquire broad understanding of and look for specific information in short texts like messages, Invitations, etc.

Section-III (Spoken and Written Expression) : Ability to understand situation-based variations in functions like apology, greeting, introduction, request, etc.

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

IN ASSOCIATION WITH



LOGICAL REASONING

1. Which option will complete the Fig. (X).

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

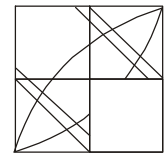


Fig. (X)

2. shows group of 5 trees, and shows group of 5 houses. Which of the following figure shows 10 houses surrounded by 20 trees ?

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

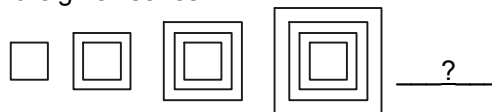
3. If \oplus means +, \odot means -, \updownarrow means >, \updownarrow means <, then which of the following is NOT true?

- (A) $2 \oplus 5 \updownarrow 4$ (B) $5 \odot 3 \updownarrow 7$ (C) $10 \oplus 5 \updownarrow 5$ (D) $4 \odot 2 \updownarrow 7$

4. Find the odd one out.

- (A) Sunday (B) January (C) Wednesday (D) Friday

5. Which figure will come next in the given series?



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

6. Find odd one out.

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

COMPUTERS AND INFORMATION TECHNOLOGY


7. Which of the following icon is used to draw perfect circle in Ms-Paint of Windows 7?

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

8. Which of the following is an input device?

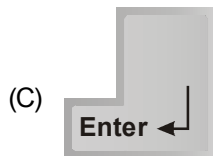
- (A) (B) (C) (D) Both (A) and (B)

9. In MS-Word, what tab of the ribbon do you need to be on, to see the document views that are available?
(A) View (B) Home (C) Page Layout (D) Insert

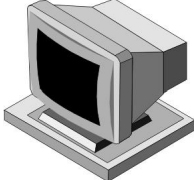
10.  represents which part of computer ?
(A) Keyboard (B) Mouse (C) CD (D) CPU

11. Which of the following statements about a computer is NOT correct?
(A) You can watch movies on it. (B) You can solve your sums on it.
(C) You can play games on it. (D) You can cook food with it.

12. The key that erases characters towards the left is _____.



13. Find the odd term out.
(A) Keyboard (B) Mouse (C) Monitor (D) Joystick

14.  is also called _____.

- (A) VDU (B) CPU (C) ALU (D) CU





15. MS-Paint is a windows program that is used for _____.
(A) Calculations (B) Writing letters
(C) Drawing purposes (D) Preparing presentations

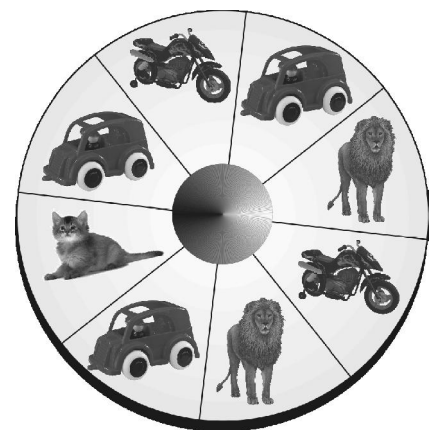


National Science Olympiad

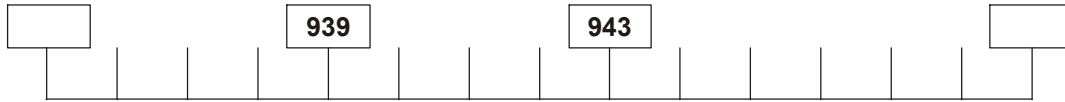
LOGICAL REASONING

1. If Anshuman spins the wheel once, the spinner will least likely come on

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



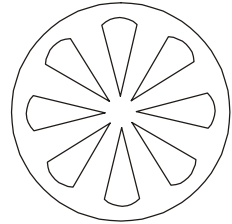
2. Study the number line below. Fill in each box with the correct answer.



- (A) 935, 950 (B) 934, 947 (C) 934, 948 (D) 935, 949

3. The figure has ____ straight lines and ____ curves.

- (A) 9, 10
 (B) 14, 12
 (C) 16, 9
 (D) 15, 10



4. Today is 10th April 20XX. What day will be on 5th May 20XX ?

- (A) Tuesday
 (B) Wednesday
 (C) Thursday
 (D) Friday

APRIL 20XX						
SUN	MON	TUES	WED	THU	FRI	SAT
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

5. Which of the following shows the correct mirror image of given word?

WATER

- (A) **RETAW** (B) **RETAW** (C) **RETAW** (D) **WATER**

SCIENCE

6. Solar energy comes from

- (A) The sun (B) Tides (C) Oil (D) Fossils

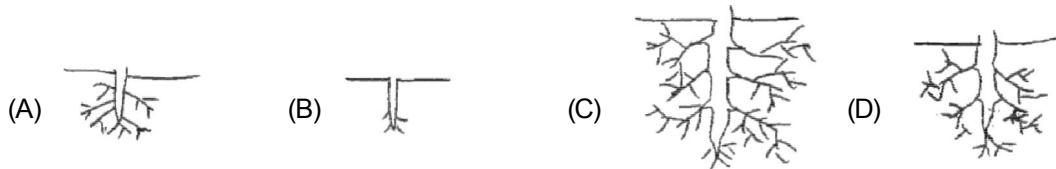
7. Water droplets that are too heavy to float make

- (A) Fog (B) Clouds (C) Rain (D) Smoke

8. Which of the following does not take the shape of the container it is in ?

- (A) Pencil (B) Oil (C) Water (D) Milk

9. The figures below show the roots of some plants. Which of the following will hold the plant most firmly to the soil ?

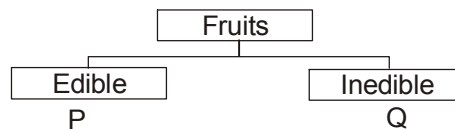


10. Ducks have

- (A) Short and broad beaks (B) Broad and flat beaks
 (C) Slender beaks (D) Pointed beaks

11. Look at the classification table shown. 'P' & 'Q' is correctly represented by _____.

- | | |
|---------------|--------------|
| P | Q |
| (A) Tomato | Chilli |
| (B) Mimosa | Dragon fruit |
| (C) Pineapple | Rubber |
| (D) Apple | Coconut |



12. I protect the brain. I consist of bones which are fused firmly together to form a shell-like structure. What am I?
 (A) Skull (B) Ribcage (C) Spine (D) Sternum
-
13. The bird that lays its eggs in the nest of a crow is
 (A) Cuckoo (B) Parrot (C) Wood pecker (D) Pigeon
-
14. Which of the following will not dissolve in water?
 (A) Salt (B) Sugar (C) Sand (D) Baking soda
-
15. Soil helps trees because soil —
 (A) Makes food for the trees (B) Moves the tree seeds to new places
 (C) Gives nutrients to the trees (D) Turns the roots into new trees



International Mathematics Olympiad

LOGICAL REASONING

1. Meena made this pattern with balls:



Which of the following uses a rule most different from Meena's pattern?



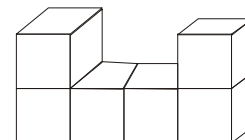
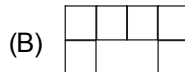
2. If Pawan has baseball practice every fourth day in the month of March, starting with March 1, what date will be his last day of practice for the month?
 (A) March 28
 (B) March 29
 (C) March 30
 (D) March 31

MARCH						
S	M	T	W	Th	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

3. Komal built a birdhouse at summer camp.
 What shape is the piece of wood that was cut out to make the door of her birdhouse?
 (A) Triangle (B) Diamond
 (C) Circle (D) Pentagon

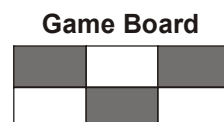


4. How would the given block model look from the top?



MATHEMATICAL REASONING

5. Tina shades in 3 spaces on a game board.
 What fraction of the game board is shaded?
 (A) $\frac{3}{6}$ (B) $\frac{3}{5}$
 (C) $\frac{3}{3}$ (D) $\frac{6}{3}$



6. What is the standard form of $7,000 + 800 + 20 + 5$?
 (A) 7,285 (B) 7,825 (C) 7,852 (D) 7,528

7. Which place value is used to prove that 5,487 is less than 5,874?
 (A) Ones place (B) Tens place (C) Hundreds place (D) Thousands place
-
8. What property of addition will help you find the answer to the problem: $6 + 0 = ?$
 (A) Zero plus any number equals to zero
 (B) Zero plus any number equals to that number
 (C) Zero minus any number equals to that number
 (D) Zero minus any number equals to zero
-
9. $8 \times 9 = \underline{\quad} + 9 + 9$. The missing number is $\underline{\quad}$.
 (A) 54 (B) 45 (C) 43 (D) 34
-
10. Tanya started watching television at 8 : 47 p.m. She decided to go to bed 1 hr 40 min later. At what time did she go to bed ?
 (A) 10 : 27 p.m. (B) 10 : 17 a.m. (C) 9 : 27 p.m. (D) 9 : 27 a.m.
-
11. The product of a number and 6 is 240. The number is $\underline{\quad}$.
 (A) 40 (B) 80 (C) 144 (D) 1440

EVERYDAY MATHEMATICS

12. Sara and 3 of her friends together made a poster. They drew 8 rows of squares with 6 squares in each row. How many squares did Sara and her friends draw on the poster?
 (A) 48 (B) 42 (C) 40 (D) 17
-
13. Third-grade students went to a theatre in 8 buses. Each bus took 45 students. How many students went to the theatre?
 (A) 320 (B) 360 (C) 380 (D) 3240
-
14. A class collected seven hundred fourteen box tops. Which number represents seven hundred fourteen?
 (A) 704 (B) 714 (C) 740 (D) 741
-
15. If Rizvan sells 479 eggs each day, how many eggs will he sell in a week ?
 (A) 486 (B) 2833 (C) 2838 (D) 3353



International English Olympiad

WORD AND STRUCTURE KNOWLEDGE

1. Look at the pictures. Find the correct word for the picture.



- (A) Writer (B) Dancer (C) Singer
2. Find the odd pair.
 (A) Cat : Kitten (B) Cow : Calf (C) Pig : Pigeon
-
3. Complete the sentence with the correct spelling of the word.
 The bear went over the $\underline{\quad}$.
 (A) Mountan (B) Mountain (C) Mountane

4. Complete the word using the letters from the box.
She saw her mother. Her eyes were shining with happ_____.

(A) Yness	(B) Iness	(C) Eness
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5. Find the odd word.
(A) Run (B) Walk (C) Table

6. Fill in the blanks.
There are thirty tables and thirty _____ in my classroom.
(A) Chair (B) Chairs (C) A chair

7. My teacher's name is Sheela. I like _____.
(A) Her (B) Him (C) She

8. Given below are three sentences. One of them is incorrect. Find the incorrect sentence and mark it in your answer sheet.
(A) I go for a walk. (B) My father's name are Prasad.
(C) My name is Kishan.

READING

Direction (Q. No. 9 to 12) : Read the letter and answer the questions.

Letter to Rudolf, Santa's Reindeer

Dear Rudolf

My name is Meethu. I am a baby parrot! I live with my friend in the great city of Mumbai in the state of Maharashtra. Of course, that's in India, but I'll bet you knew that! Rudolf, some things that I might like for Christmas this year, two bags full of my favourite seed-mix, lots of green chillies and another baby parrot to play with. And please don't forget to put in a good word for my friend with Santa! He is very nice. He doesn't keep me in a cage.

Lots of Love

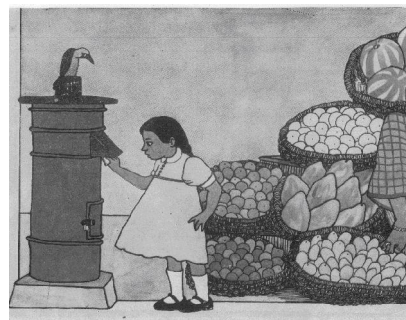
Meethu

Now, choose the correct answer.

9. Meethu lives in
(A) Hyderabad (B) Mumbai (C) A cage
10. Meethu asks for
(A) Two things (B) Three things (C) Five things
11. Meethu asks Rudolf some things for
(A) Christmas (B) Holi (C) Good Friday
12. Why does Meethu like his owner?
(A) He doesn't give him food. (B) He puts Meethu in a cage.
(C) He allows Meethu to fly.

13. Find a sentence matching the picture.

- (A) The girl is posting a letter.
A crow is looking at her.
- (B) The girl is looking at the crow.
The crow is posting a letter.
- (C) The girl is buying vegetables.
There is a post-box.



SPOKEN AND WRITTEN EXPRESSION

14. Find one sentence to complete the dialogue.

Geetha: Hello! I am Geetha ! What is your name?

Lina : (A) Hello! I am Lina.

(B) Hello! I am going home.

(C) Let us go home.

15. Find one sentence to complete the paragraph.

Ram didn't want to swim in the sea.

He sat on the beach and watched Rahul and Mahesh.

(A) Mummy gave Ram an ice cream but he didn't want it.

(B) They played in the water.

(C) But Paul didn't want to.
