



NATIONAL CYBER OLYMPIAD

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

SYLLABUS

Section – I (Logical Reasoning) : Patterns, Analogy and Classification, Coding-Decoding, Geometrical Shapes, Mirror Images, Water Images, Embedded Figures, Direction Sense Test, Ranking Test, Alphabet Test and Logical Sequence of Words, Puzzle Test

Section – II (Computers and IT) : Input and Output Devices, Hardware, Software, Storage Devices, Memory – Primary & Secondary Memory, MS-Paint, MS-Word, Introduction to MS-PowerPoint, Introduction to Multimedia, Internet, Computer Networks, Using Windows, 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 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) : Patterns, Analogy and Classification, Coding-Decoding, Geometrical Shapes, Mirror Images, Water Images, Embedded Figures, Direction Sense Test, Ranking Test, Alphabet Test and Logical Sequence of Words, Puzzle Test

Section – II (Science) : Animals, Plants and Food, Human Body and Health, Water, Matter, Natural Resources and Calamities, Earth and Universe, General Science.

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



INTERNATIONAL MATHEMATICS OLYMPIAD

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.

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

Section – III : Everyday Mathematics

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

SYLLABUS

Number sense, Numeral and Number Name (7 and 8 digit numbers), Roman Numbers, Addition, Subtraction, Multiplication, Division, Factors and Multiples, LCM, HCF, Rules of Divisibility, Whole, Prime and Composite Numbers, Fractions, Decimals, Geometrical Shapes & Angles, Circles, Symmetry, Measurement of Length, Mass, Capacity, Perimeter and Area of Rectangle, Square, Measurement of Volume, Temperature, Time and Various Operations on Time, Relationship Between Seconds, Minutes and Hours, Money, Representation of Data in Pictorial Form, Patterns, Formation of Numbers and Figures, Direction Sense, Number Ranking and Alphabetical Test, Series, Odd One Out.



INTERNATIONAL ENGLISH OLYMPIAD

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

SYLLABUS

Section – I (Word and Structure Knowledge) : Prepositions, Tenses, Irregular verbs, Pronouns, Modals quantifiers, etc. , Spellings, Collocations, Phrasal verbs, Idioms, Homonyms and homophones, Words related to feelings, Travel, Food, Health, appearance, Character, etc.

Section – II (Reading) : 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 – III (Spoken and Written Expression) : Ability to understand situation-based variations in functions like requests, Refusals apologies, etc. and the use of conjunctions.

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

IN ASSOCIATION WITH





National Cyber Olympiad

LOGICAL REASONING

- $5\frac{3}{4} = 5 + (\square + \square + \square)$. Here, \square stands for _____.
 (A) $\frac{3}{4}$ (B) $\frac{1}{4}$ (C) 3 (D) 4
- How many times exactly two X's occurs together?
 X Y X X Y X Y Y X X X Y Y X X Y X Y X X
 (A) 5 (B) 4 (C) 2 (D) 3
- If the day before yesterday is two days after Monday then what day is it today ?
 (A) Monday (B) Tuesday (C) Wednesday (D) Saturday
- Which of the following options replaces the question mark (?) in Fig. X?

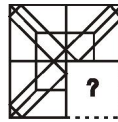
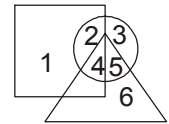


Fig. (X)

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

- If "MATHEMATICS" is coded as "SCITAMEHTAM" then how will "OLYMPIAD" be coded ?
 (A) DAMPOMYL (B) OLYMDIAP (C) DAIPMYLO (D) IADYMPLO
- Which number lies in the circle and square, but not in the triangle?

- (A) 1
 (B) 2
 (C) 3
 (D) 6



COMPUTERS AND INFORMATION TECHNOLOGY

- Which of the following is NOT a Windows 7 Aero feature?
 (A) Snap (B) Peek (C) Bump (D) Shake
- Which of the following is a dimension of floppy disk?
 (A) 3.5 inch (B) 5.25 inch (C) Both (A) and (B) (D) None of these
- Multimedia is used for many purposes like _____.
 (A) Education (B) Advertising (C) Playing games (D) All of these
- Find the odd term out.
 (A) Scanner (B) Pointing device (C) OMR (D) Printer
- In MS-PowerPoint, which of the following is NOT a slide layout?
 (A) Title slide (B) Office theme (C) Title and content (D) Two content
- Computer cannot perform anything on its own. It can process only when it is instructed to do so. These sets of instructions that are fed in by the user are termed as _____.
 (A) Hardware (B) Software (C) Flowcharts (D) Device
- In MS-Word, which tab would you select to insert a shape in a document?
 (A) Insert (B) Review (C) View (D) File

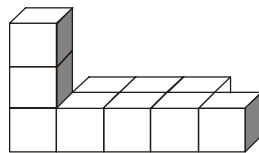
14. The small picture representing a program in Windows 7 is called _____.
 (A) Icon (B) Pictures (C) Images (D) Drive
-
15. While working in MS-Paint, the option which is used to show the drawing in a small reference window is _____.
 (A) Grid (B) Zoom in (C) Bitmap (D) Thumbnail
-



National Science Olympiad

LOGICAL REASONING

1. If you are eleventh in a queue starting either end, how many are there in the queue?
 (A) 11 (B) 21 (C) 20 (D) 24
-
2. Choose the 2-dimensional figure that represents the 3-dimensional figure when viewed from top.



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

3. The mirror image of SON, if the mirror is placed vertically left is _____.
 (A) NOS (B) 2ON (C) 2OI (D) IO2
-

4. If , then represent which number ?
 (A) 7895 (B) 6897 (C) 6885 (D) 9876
-

5. If the day before yesterday is third day after Monday, then what day is it today ?
 (A) Monday (B) Tuesday (C) Wednesday (D) Saturday
-

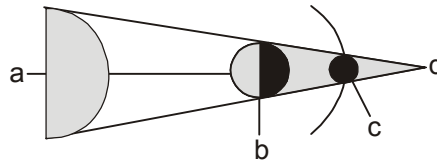
SCIENCE

6. Where will you put termites in the following table ?

	Two pairs of legs	Three pairs of legs
With wings	P	Q
Without wings	R	S

- (A) P (B) Q (C) R (D) S
-
7. If your diet is deficient in sour fruits then you are supposed to suffer from
 (A) Rickets (B) Beri Beri (C) Scurvy (D) Night blindness.
-
8. Which of the following traits is/are inherited ?
 (i) Talking in different languages (ii) Love for reading
 (iii) Love for knitting (iv) Colour of eyes (v) Love for music
 (A) (iv) only (B) (i) & (iv) (C) (i), (iv) & (v) (D) (iv) & (v)
-

9. A small baby plant coming out of a seed is
 (A) Grain (B) Root (C) Dispersal (D) Seedling
-
10. Which of these is needed to measure the mass of a rock?
 (A) A balance (B) A barometer (C) A metric ruler (D) Thermometer
-
11. Which of these can most easily attract magnets ?
 (A) Wood (B) Notebook (C) Iron nails (D) Eraser
-
12. The substance that makes plants green is known as –
 (A) Water (B) Chlorophyll (C) Carbon dioxide (D) Calcium
-
13. Today, which human activity is responsible for endangering the greatest number of land animal species?
 (A) Accidental starting of forest fires (B) Cutting wildflowers in national parks
 (C) Destruction of habitats (D) Hunting for food and sport
-
14. Look at the figure. It shows lunar eclipse. Where will be the Earth in it ?



- (A) a (B) b (C) c (D) d

15. If there is no rain, crops fail to grow. This condition will lead to
 (A) Flood (B) Drought (C) Famine (D) Both (B) & (C).

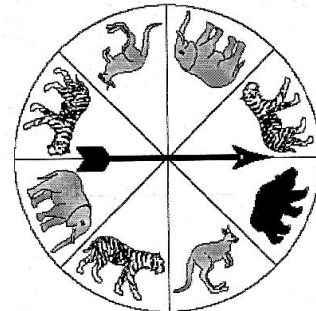


International Mathematics Olympiad

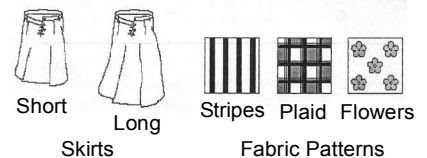
LOGICAL REASONING

1. The given picture shows a spinner for an animal board game.
 In which animal section is spinner least likely to land?

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



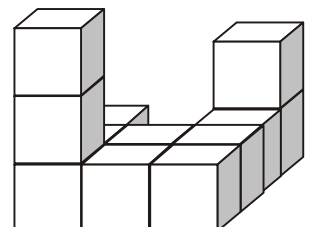
2. Shelley is ordering a skirt from a catalog. She can choose one of two lengths: a short skirt or a long skirt. Then she can choose one of three fabric patterns: stripes, plaid, or flowers. At most how many different combinations could Shelley order choosing a length and a fabric pattern?



- (A) 2 (B) 3 (C) 5 (D) 6

3. The number of cubes in the given figure is _____.

- (A) 11
 (B) 12
 (C) 13
 (D) 14



4. Find the odd numeral out.

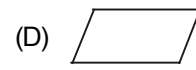
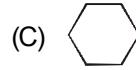
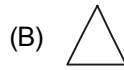
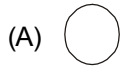
(A) 7

(B) 9

(C) 12

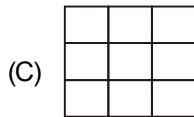
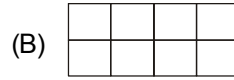
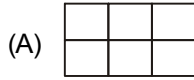
(D) 6

5. Which figure is a quadrilateral?



MATHEMATICAL REASONING

6. Which figure has an area of 8 sq. units and a perimeter of 12 units? (Each square block is of side 1 unit).



7. The given table shows the distance around four different planets. Which planet's distance has the numeral 3 in the ten-thousands place?

(A) Jupiter

(B) Mars

(C) Mercury

(D) Neptune

DISTANCE AROUND

Planet	Distance Around (in miles)
Jupiter	88,732
Mars	4,213
Mercury	3,032
Neptune	30,603

8. Which of the following statements is true about the multiples of 5 ?

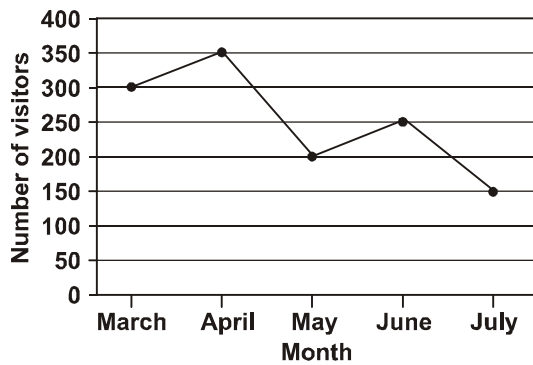
(A) They all are odd numbers.

(B) They all can be divided by 3.

(C) They all are even numbers.

(D) They all end with either 0 or 5.

9. The line graph shows the number of people who visited a museum from March to July. How many more visitors were there in April than in June?



(A) 200

(B) 350

(C) 150

(D) 100

10. How many angles inside the figure are greater than a right angle?


(A) 5

(B) 6

(C) 7

(D) 8



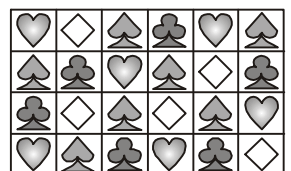
11. What fraction of the figures are  ?

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

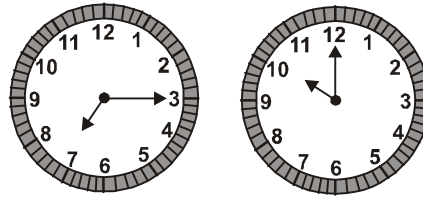
(B) $\frac{1}{3}$

(C) $\frac{1}{5}$

(D) $\frac{1}{2}$



12. Katrina went to watch a movie. The time that the movie started and ended are shown on the two clocks given here. How long did the movie last ?



Starting Time

Ending Time

- (A) 1 hr 45 mins (B) 2 hrs 45 mins (C) 2 hrs 15 mins (D) 3 hrs

EVERYDAY MATHEMATICS

13. Harry had 500 coins in a jar. He sorted the coins into 25 different stacks. Each stack had the same number of coins. How many coins were in each stack?
 (A) 20 (B) 45 (C) 25 (D) 12
-
14. There are 914 students enrolled in Elementary School. Middle School has 276 fewer students enrolled. How many students are enrolled at Middle School?
 (A) 642 (B) 762 (C) 1,190 (D) 638
-
15. Tom left home at 7 : 15 a.m. to go to work. He returned home at 4 : 45 p.m. What is the total amount of time Tom was away from home?
 (A) 7 hours 30 minutes (B) 9 hours 30 minutes
 (C) 3 hours 30 minutes (D) 8 hours 30 minutes



International English Olympiad

WORD AND STRUCTURE KNOWLEDGE

1. Complete each word using the letters from the box.
 I can't wait to ___wrap my birthday presents.
 (A) In (B) Im (C) Un (D) None of these
-
2. Choose the odd one out.
 (A) Build (B) Separate (C) Construct (D) None of these
-
3. Complete the sentence with the correct spelling of the word.
 I like to read _____to my brother.
 (A) Allowed (B) Aloud (C) Alaud (D) None of these
-
4. Match the underlined phrase with its correct meaning in the box.
 Mother tried in vain to make her finish her milk.
 (A) Unable to do something (B) Using a pipe
 (C) With a lot of effort (D) None of these
-
5. Find the odd one out.
 (A) Teacher : Student (B) Shopkeeper : Customer
 (C) Doctor : Librarian (D) None of these
-
6. You have to go _____ this door to reach the library.
 (A) From (B) By (C) Through (D) None of these

Direction (Q. No. 7 and 8) : Spot the error in the sentence.

7. This doll / was my/ before I gave it to you. No error
 (A) (B) (C) (D)

8. If a student is not well, / he must to stay home / and rest till he feels better. No error
 (A) (B) (C) (D)
-
9. Given below are three sentences. One of them is incorrect. Find the incorrect sentence and mark it in your answer sheet.
 (A) The Amazon river is the largest river in the world.
 (B) Sangeeta is watching television.
 (C) I will start my course on June.
 (D) None of these.
-
10. If he is planning to participate in the marathon, he _____ practice regularly.
 (A) Should (B) Shall
 (C) Can (D) None of these
-

READING

Direction (Q. No. 11 and 12) : Read the passage and answer the following questions.

Miss Jabber Blabber

The teacher, Mr. Rao walked to the blackboard and wrote up a list of words. He pointed to the list. "I want you to read these words to yourselves," he said. "Then, without talking to your neighbour, choose any word from the list and draw a picture of it in your notebook."

Joy squealed very thrilled.

I stared at the words. Then I tapped my chin. And I scratched my head. Finally I reached out to Rahul and tapped on his head.

"Psst, Rahul", I whispered, "which word are you drawing?"

Joy jumped up from her seat and pointed at me.

"Sir, Sir, Jenny is talking to her neighbour."

That's how Joy earned her famous name, one that she never liked, "J Joy Jabber Blabber"!

11. Joy complained to the teacher because
 (A) She couldn't do her work.
 (B) They were not including her in their conversation.
 (C) She wanted to show the teacher that she was an obedient student.
 (D) None of these
-
12. Which of the following words would Rahul and Jenny use to describe Joy?
 (A) Irritating (B) Liar (C) Friendly (D) None of these

SPOKEN AND WRITTEN EXPRESSION

Direction (Q. No. 13 to 15) : Find one sentence to complete the dialogue.

13. Mother: When did you come back from the zoo? Did you like it there?
 Minu :
 (A) Yes, I did. (B) I will think about it. (C) I cannot come (D) None of these
-
14. Teacher 1 : You have got a list of students. How many of them are coming to the picnic?
 Teacher 2 :
 (A) I don't know. (B) I can't see them. (C) I haven't got any. (D) None of these
-
15. Sentence 1. I am celebrating my doll's birthday tomorrow.
 Sentence 2.
 Sentence 3. You are invited.
 (A) There is a party at my place at 6:00 pm.
 (B) Please come with a gift.
 (C) Don't come after 6:00!
 (D) None of these
-

