

NATIONAL CYBER OLYMPIAD

The actual test paper has 50 questions. Time allowed : 60 minutes. There are 3 sections, 15 questions in section I, 15 in section II and 20 in section III.

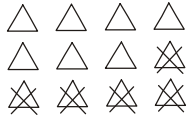
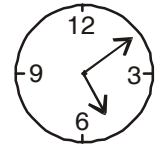
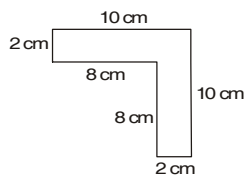
SYLLABUS

Section I (Mental ability) : Number and numeration, Addition, Subtraction, Multiplication, Division, Geometrical shapes, Measurement of time, Measurement of length, Mass and capacity, Money, Fractional numbers, Pictorial presentation of data, Roman numerals, Numbers up to one lakh, Multiples and factors.

Section II (Logical and analytical reasoning) : Problems based on figures, Find odd numeral out, Series completion, Coding-decoding, Mathematical reasoning, Analytical reasoning, Mirror images, Embedded figures.

Section III (Computer and IT) : About computers (General information), Parts of computer, Input/Output/Processing devices, Hardware/Software, History of computer, LOGO (introduction), MS DOS/MS Paint.





MENTAL ABILITY

1. The place value of 5 in 45327 is
 (A) 5000 (B) 50 (C) 500 (D) 5327 (E) None of these.
-
2. 5 is one of the factors of
 (A) 36 (B) 30 (C) 42 (D) 21 (E) None of these.
-
3. The fraction which represents the objects cancelled in the collection
 is
 (A) $\frac{5}{12}$ (B) $\frac{12}{5}$ (C) $\frac{1}{2}$ (D) $\frac{2}{3}$ (E) None of these.
-
4. There were 3856 trees in a forest. In another forest there were 4795 trees. How many more trees were there in the second forest?
 (A) 930 (B) 939 (C) 1689 (D) 1600 (E) None of these.
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5. The cost of a train ticket is Rs. 986. Find the cost of 15 tickets.
 (A) Rs. 14790 (B) Rs. 14590 (C) Rs. 14950 (D) Rs. 14770 (E) None of these.
-
6. 1 litre is
 (A) 10 decilitres (B) 10 centilitres
 (C) 10 millilitres (D) 100 decilitres
 (E) None of the above.
-
7. The time shown in the clock is
 (A) 10 min. past 5 (B) 15 min. past 6
 (C) 30 min. past 6 (D) 10 min. past 6
 (E) None of the above.
- 
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8. Perimeter of the figure given here is
 (A) 40 cm (B) 50 cm
 (C) 45 cm (D) 55 cm
 (E) None of the above.
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LOGICAL & ANALYTICAL REASONING

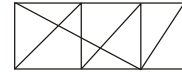
9. A is 40 m South-West of B. C is 40 m South-East of B. C is in which direction of A ?
 (A) South (B) West (C) East (D) North-West (E) None of the above.
-
10. If 'a' means '+' ; 'b' means '-' ; 'c' means '÷' and 'd' means '×' then the expression
 $16a\ 4b\ 4c\ 4d2 =$
 (A) 10 (B) 7 (C) 18 (D) $2\frac{1}{2}$ (E) None of these.

11. There are four figures out of which three are same in some way while one is different from the rest. Find out the different figure.

- (A)  (B)  (C)  (D)  (E) None of these.

12. How many triangles are there in the following figure?

- (A) 15 (B) 18 (C) 17 (D) 20
(E) None of the above.


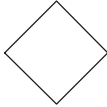




13. Video : Cassette :: Computer : ?

- (A) Reels (B) Floppy (C) Recordings (D) Files (E) None of these.

COMPUTERS & INFORMATION TECHNOLOGY

14. The symbol in the flowchart that represents an operation such as storage of data or any arithmetic operation is

- (A)  (B)  (C)  (D) 
(E) None of the above.

15. This key is used to move cursor to the beginning of the line or the screen depending on the software used. Identify the key.

- (A)  (B)  (C)  (D)  (E) None of these.

16. 1024 bytes equals

- (A) 1 Kilo byte (KB) (B) 1 Mega byte (MB)
(C) 1 Giga byte (D) 1 Character
(E) None of the above.

17. Who among the following is known as father of computers ?

- (A) Charles Babbage (B) John Napier (C) Blaise Pascal
(D) Lady Ada Augusta Lovelace (E) None of the above.

18. While working with MS-Paint which option is used to add name to your drawing ?

- (A) Text tool (B) Pencil (C) Edit (D) Brush (E) None of these.

19. Which command will move the LOGO cursor in forward direction ?

- (A) F D (B) B K (C) L T (D) R T (E) None of these.

20. ? REMAINDER 10 3 will display result as

- (A) 1 (B) 3 (C) 2 (D) 0 (E) None of these.

ANSWER KEY

1. (A) 2. (B) 3. (A) 4. (B) 5. (A) 6. (A) 7. (A) 8. (A) 9. (C) 10. (C)
11. (D) 12. (C) 13. (B) 14. (C) 15. (B) 16. (A) 17. (A) 18. (A) 19. (A) 20. (A)