

CLASS

5

SAMPLE PAPER

Science  
Olympiad  
Foundation

For Excellence in Science, Maths & IT

## 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)** : Regional and roman numerals, Numbers up to one lakh, Multiples and factors, Fractional numbers, Addition, Subtraction, Multiplication, Division, Estimation, Geometrical shapes, Measurement, Time, Money, Perimeter, Pictorial representation of data, Prime and composite numbers, HCF and LCM.

**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, MS DOS/MS Paint, Information about notepad.

## MENTAL ABILITY

1. Which of the following are supplementary angles?  
 (A)  $180^\circ, 180^\circ$     (B)  $100^\circ, 80^\circ$     (C)  $50^\circ, 50^\circ$     (D)  $40^\circ, 50^\circ$     (E) None of these.

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2. 4 km 79 m equals  
 (A) 4.079 km    (B) 40.79 km    (C) 0.4079 km    (D) 407.9 km    (E) None of these.

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3. 5 min. + 25 sec =  
 (A) 6 min. 95 sec.    (B) 3 min. 50 sec.  
 (C) 3 min. 65 sec.    (D) 4 min. 85 sec.  
 (E) None of the above.

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4. The cost of 8 pencils is Rs. 24. Find the cost of 5 pencils.  
 (A) Rs. 20    (B) Rs. 10    (C) Rs. 12    (D) Rs. 15    (E) None of these.

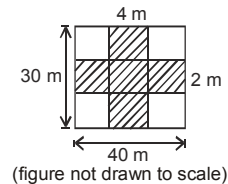
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5. A table was bought for Rs. 1000 and sold for Rs. 900. Then the loss percent is  
 (A) 10%    (B) 5%    (C) 15%    (D) 12%    (E) None of these.

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6.  $104^\circ\text{F}$  equals  
 (A)  $50^\circ\text{C}$     (B)  $55^\circ\text{C}$     (C)  $40^\circ\text{C}$     (D)  $45^\circ\text{C}$     (E) None of these.

7. The area of the shaded region is  
 (A)  $264\text{ m}^2$     (B)  $192\text{ m}^2$   
 (C)  $190\text{ m}^2$     (D)  $36\text{ m}^2$   
 (E) None of the above.



8. Which of the figures shows correct fraction for  $\frac{1}{3}$ ?  
 (A)  $\times \times \times \times (\times \times)$     (B)  $\div \div \div \div (\div)$     (C)  $\circ \circ \circ (\circ \circ)$   
 (D)  $\circ \circ \circ \circ (\circ \circ \circ)$     (E) None of these.

## LOGICAL & ANALYTICAL REASONING

9.  $5\frac{3}{4} = 5 + (\square + \square + \square)$   
 Here,  $\square$  stands for  
 (A)  $\frac{3}{4}$     (B)  $\frac{1}{4}$     (C) 3    (D) 4    (E) None of these.

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10. Find odd one out.  
 (A) Mars    (B) Jupiter    (C) Comet    (D) Earth    (E) None of these.

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11. Which is the odd one out?  
 (A)    (B)    (C)    (D)    (E) None of these.

12. Library is to book as book is to

- (A) Page (B) Copy (C) Binding (D) Cover (E) None of these.

13. If the day before yesterday is two days after Monday then what day is it today ?

- (A) Monday (B) Tuesday (C) Wednesday (D) Saturday (E) None of these.

### COMPUTERS & INFORMATION TECHNOLOGY

14. Windows 95/96 is a

- (A) Software (B) Hardware (C) Operating system  
(D) Input device (E) None of these.

15. Find the odd term out.

- (A) Scanner (B) Pointing device (C) OMR  
(D) Printer (E) None of these.

16. This is a non impact type of printer that uses heat to put characters on the paper. It uses paper with a special coating on it. It is basically used for printing output of ECG. Identify the printer we are talking about.

- (A) Laser printer (B) Inkjet printer  
(C) Thermal printer (D) Dot matrix printer (E) None of these.

17. 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) Programs (E) None of these.

18. MS-paint is

- (A) Accounting software (B) System software  
(C) Application software (D) Physical component (E) None of these.

19. The small picture representing a program is a

- (A) Icon (B) File (C) Folder (D) Drive (E) None of these.

20. While working in MS-paint, the option which is used to show the drawing in a small reference window is

- (A) Show grid (B) Zoom in  
(C) View bitmap (D) Show thumbnail (E) None of these.

### ANSWER KEY

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



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