



**UNIFIED CYBER OLYMPIAD (UPDATED)**

**CLASS - 6**  
**Question Paper Code : 30109**

**KEY**

1. C	2. A	3. D	4. D	5. A	6. C	7. B	8. C	9. C	10. D
11. A	12. D	13. C	14. C	15. B	16. C	17. D	18. B	19. D	20. C
21. A	22. C	23. D	24. B	25. C	26. D	27. A	28. C	29. C	30. D
31. C	32. B	33. A	34. C	35. B	36. A	37. C	38. C	39. D	40. C
41. B	42. B	43. B	44. A	45. C	46. B	47. D	48. B	49. C	50. D

**SOLUTIONS**

**MENTAL ABILITY**

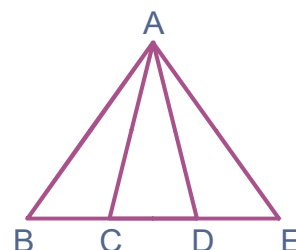
01. (C) The number of three digit numbers = (The greatest 3-digit number – The smallest 3-digit number) + 1  
 $= (999 - 100) + 1$   
 $= 899 + 1 = 900$
02. (A) Apply distributive property  
 $8937 \times 648 + 8937 \times 122 + 8937 \times 230 =$   
 $8937 \times (648 + 122 + 230) = 8937 \times 1000$   
 $= 8937000$
03. (D) Recall the tests of divisibility
04. (D) Area of the sheet = 5 m × 750 cm  
 $= 500 \text{ cm} \times 750 \text{ cm}$   
 Area of sheet required to form 1 envelope  
 $= 25 \text{ cm} \times 15 \text{ cm}$

$\therefore$  Number of envelopes made  
 $= \frac{\text{Area of the sheet}}{\text{Area of sheet required to form 1 envelope}}$


$$= \frac{500^{20} \times 750^{50} \text{ cm}^2}{25 \times 15 \text{ cm}^2}$$

05. (A) Length of rod before division  
 $= (2.03 + 6.89 + 1.7 + 3.76) \text{ m}$   
 $= 14.38 \text{ m}$

06. (C)



$\triangle ABC, \triangle ABD, \triangle ABE, \triangle ACD, \triangle ACE, \triangle ADE$  are the '6' possible triangle formed.

07. (B)  $\frac{3}{4} + \frac{1}{3} + \frac{2}{5} = \frac{45+20+24}{60} = \frac{89}{60}$   
 $\therefore$  Difference =  $\frac{89}{60} - \frac{59}{60} = \frac{30}{60} = \frac{1}{2}$
08. (C) Perimeter of a rectangle =  $2(l + b)$   
 $= 2(250 + 120) \text{ m} = 740 \text{ m}$
09. (C) The required sum  
 $= [37 - (-8)] + [11 - (-30)]$   
 $= (37 + 8) + (11 + 30)$   
 $= 45 + 41 = 86$
10. (D) Wednesday 6 and Thursday 4  
 $\therefore 6 + 4 = 10$    $= 10 \times 3 = 30$  delivers.
11. (A)  $\frac{5}{9} + \frac{5}{9} = \frac{5+5}{9} = \frac{10}{9}$
12. (D)  $2:3 = 20 : x$   
 $2 \times x = 3 \times 20$   
 $x = \frac{3 \times 20}{2} = 30$
13. (C) Given  $3A = 4B = 5C = k$   
 $\therefore 3A = k \Rightarrow A = \frac{k}{3}$   
 $4B = k \Rightarrow B = \frac{k}{4}$   
 $5C = k \Rightarrow C = \frac{k}{5}$   
 $\therefore A:B:C = \frac{k}{3} : \frac{k}{4} : \frac{k}{5}$   
 $= \frac{1}{3} \times 60 : \frac{1}{4} \times 60 : \frac{1}{5} \times 60$   
 $[\because \text{LCM of } 3, 4 \text{ \& } 5 = 60]$   
 $= 20 : 15 : 12$
14. (C) Given volume of a cuboid =  $323 \text{ cm}^3$   
 $l \times b \times h = 323 \text{ cm}^3$   
 $19 \text{ cm} \times 17 \text{ cm} \times h = 323 \text{ cm}^3$   
 $h = \frac{323 \text{ cm}^3}{19 \text{ cm} \times 17 \text{ cm}} = 1 \text{ cm}$
15. (B) Three non-collinear points are joined to form a triangle.

## REASONING


16. (C) Except (C), in all other figures arrows are in outside direction.
17. (D) First figure takes  $180^\circ$  turn and one horizontal line and white circle has been added.
18. (B) The two triangles in the first figure join to form a triangle. Similarly the third figure triangles join to form a triangle.
19. (D) Reverse order series.

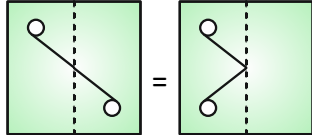
NOITCEFREP

20. (C) The new letter – series obtained on reversing the order of the English alphabet is

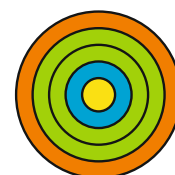
ZYXWVUTSRQPONMLKJIHGFEDCBA

Since the series has an even number of letters (i.e., 26) there will be two letters which lies exactly in the middle. i.e., M & N.

21. (A) NATIONAL  JANUARY
22. (C)  $6 + 2 = 3 + 5 = 8$   
 $3 + 9 = 6 + 6 = 12$   
 Similarly,  $(4 + 7) = (6 + 5) = 11$

23. (D) 

24. (B) MONITOR
25. (C) Republic day is on  $26^{\text{th}}$  of January. Number of days in the month of January is 31. As  $26^{\text{th}}$  falls on saturday,  $14^{\text{th}}$  of next month will be as of  $31^{\text{st}}$  January. i.e., thursday.
26. (D)  $13 - 8 = 5$  (From left to left) 5th letter from the left is E.  
 As E is given at option D. Hence (D) is the correct answer.
27. (A) Two green colours are comes side by side.



28. (C) The figure rotates 90° ACW and its inverted image shaded is placed over it. This rule gives figure (B) from figure (A) and similarly the missing figure in the 2nd pair is obtained as option (C).



29. (C)
30. (D) The figure gets rotated through 135° CW.

### COMPUTERS

31. (C) Among the options Printer is a peripheral device.
32. (B) Computers are electronic devices that can process, store and retrieve data. The main function of a computer is to manipulate information and data.
33. (A) In a flowchart, the parallelogram symbol represents an input/output operation.
34. (C) 1970's-1980's
35. (B) Mozilla Firefox is not based on the Chromium open-source project. Google Chrome, Microsoft Edge, and Opera are all web browsers that utilize the Chromium open-source project as their underlying engine.
36. (A) When creating an email account, users need to choose a unique username and set a secure password to access their email inbox and send messages securely.
37. (C) The "PRINT" command is used to display text on the screen in QBASIC.
38. (C) Alphanumeric variables always end with a dollar (\$) sign.

39. (D) The given image Samsung DropBox.
40. (C) 553 MB. Today, a standard CD-ROM disc can store upto 700 MB of data.  
A standard CD-ROM disc can store upto 700 MB of data.
41. (B) The individual pages of the presentation called slides.
42. (B) The Video feature in PowerPoint allows you to embed video files directly into a slide, enabling multimedia content to be included in the presentation.
43. (B) The "Home" tab in MS Word contains options for formatting text, including making it bold and changing its color.
44. (A) Windows Hello
45. (C) Using a spreadsheet for data analysis provides powerful calculation features, such as formulas and functions, which enable users to perform complex calculations and analyze data more efficiently.

### ENGLISH

46. (B)
47. (D)
48. (B)
49. (C)
50. (D)

=====*The End*=====