



## Unified International Cyber Olympiad

### UNIFIED INTERNATIONAL CYBER OLYMPIAD (UPDATED)

**CLASS - 6**

**Question Paper Code : 3B117**

#### KEY

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

#### SOLUTIONS

##### MENTAL ABILITY

01. (D) Final weight  
= 53.8 kg – 8.95 kg = 44.85 kg
02. (A) Remaining area =  $12 \times 9 \text{ cm}^2 - 5 \times 5 \text{ cm}^2$   
=  $108 \text{ cm}^2 - 25 \text{ cm}^2 = 83 \text{ cm}^2$
03. (B) Number of students travel to school by  
bus =  $50 \times \frac{2}{5} = 20$   
Number of students travel to school by  
car = 10  
Number of students travel to school on  
foot =  $50 - 10 - 20 = 20$   
fraction of student who walk =  $\frac{20}{50} = \frac{2}{5}$

04. (C) Breadth =  $\frac{\text{volume}}{l \times h} = \frac{1680 \text{ m}^3}{14 \times 10 \text{ m}^2} = 12 \text{ m}$ .

05. (A)  $\frac{609\text{l}}{1000} = 0.609\text{l}$

06. (C) 
$$\begin{array}{r} 43 \overline{)1330} 30 \\ \underline{1290} \\ 40 \end{array}$$

$\therefore 43 - 40 = 3 \Rightarrow 3$  to be added

07. (C) The fraction of shaded parts =  $\frac{4}{12} = \frac{1}{3}$ .

08. (D) Cost of pencil box = Rs. 100 – Rs. 75 –  
Rs. 54.75

$$= \text{Rs. } 42.50$$

09. (D) 12, 2, 6 & 9 LCM = 36

$$\therefore \frac{7}{12} = \frac{7}{12} \times \frac{3}{3} = \frac{21}{36}, \quad \frac{3}{2} = \frac{3}{2} \times \frac{18}{18} = \frac{54}{36}$$

$$\frac{5}{6} = \frac{5}{6} \times \frac{6}{6} = \frac{30}{36}, \quad \frac{4}{9} = \frac{4}{9} \times \frac{4}{4} = \frac{16}{36}$$

$$\therefore \frac{16}{36} < \frac{21}{36} < \frac{30}{36} < \frac{54}{36}$$

$\therefore \frac{4}{9}$  is the smallest among the given options

10. (B) No. of books read by Pragna more than Pranay =  $(5 - 3) \times 10 = 20$

11. (D) Given question tells about number of seconds in a week

$$12. (D) \text{ L.H.S} = \frac{37}{12} - \left[ \frac{7}{4} + \left\{ \frac{5}{2} - \left( \frac{3}{2} - \frac{1}{3} \right) \right\} \right]$$

$$= \frac{37}{12} - \left[ \frac{7}{4} + \left\{ \frac{5}{2} - \left( \frac{9-2}{6} \right) \right\} \right]$$

$$= \frac{37}{12} - \left[ \frac{7}{4} + \left\{ \frac{5}{2} - \frac{7}{6} \right\} \right]$$

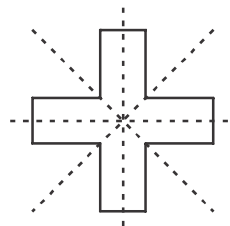
$$\frac{37}{12} - \left[ \frac{7}{4} + \left\{ \frac{15-7}{6} \right\} \right] = \frac{37}{12} - \left[ \frac{7}{4} + \frac{8}{6} \right]$$

$$= \frac{37}{12} - \left[ \frac{21+16}{12} \right] = \frac{37}{12} - \frac{37}{12} = 0$$

13. (D) Side of the square =  $\frac{404}{4} = 101 \text{ cm}$

$$\text{Area of the square} = 101 \text{ cm} \times 101 \text{ cm} \\ = 10201 \text{ cm}^2$$

14. (C)



15. (C) Sum of three angles of  $\triangle ABC = 180^\circ$

$$\angle A = 180^\circ - \angle B - \angle C$$

$$= 180^\circ - 75^\circ - 52^\circ = 53^\circ$$

## REASONING

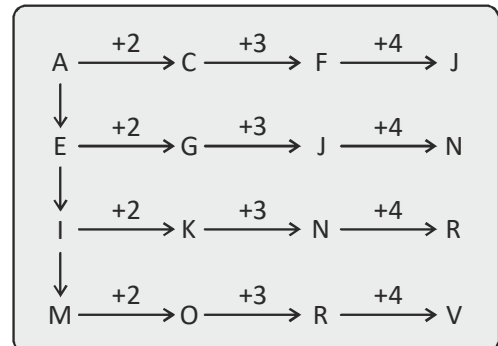
16. (A)



17. (D)  $(3 \times 9) - (6 \times 4) = 3$ .

18. (D) Racket, Radiate, Radical, Radius

19. (A)



20. (C) PACIFIC

21. (D) There are no two 'R's

22. (D) The given series consists of squares of consecutive odd numbers. i.e.,  $1^2, 3^2, 5^2, 7^2, \dots$ . So, missing term =  $9^2 = 81$ .

23. (D)

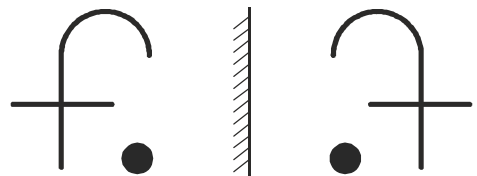


24. (D) 8 triangles are there in the given figure.

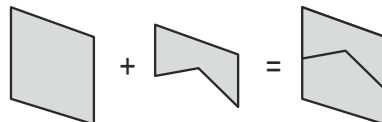
Option (D) is correct.

25. (D) Option (D) satisfies the characteristics in the given group.

26. (D)



27. (C)

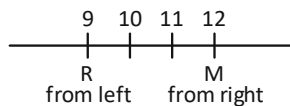


28. (D)

|   |   |   |
|---|---|---|
| M | S | D |
| T | O | R |
| E | A | N |

[S] [T] [A] [R] [T]

29. (B) 22<sup>nd</sup>



Total = 30

Rakesh from right =  $30 - 9 + 1 = 22^{\text{nd}}$

30. (A) All the options are not rotated versions of the question figure, except option A.

### COMPUTERS

31. (D) FORTRAN stands for Formula Translator, one of the earliest high-level programming languages used for scientific and engineering calculations.

32. (C) First generation: 1946–1959 (Vacuum tubes)

Second generation:

1959–1965 (Transistors)

Third generation:

1965–1971 (Integrated circuits)

Fourth generation:

1971–1980 (Microprocessors)

33. (C) In QBASIC, text strings that appear on the screen are written inside double quotes (" ").

34. (D) CC (Carbon Copy) allows the message to be sent to multiple recipients visibly. BCC (Blind Carbon Copy) allows sending to multiple recipients without revealing their email addresses

35. (A) Common types of programming errors in QBASIC:

Syntax error – invalid use of language rules

Logic error – program runs but gives wrong result

Compile error (sometimes called compilation error, though QBASIC is interpreted, it still flags syntax errors at once)

“Grammar error” is not a standard term in programming; it’s more for natural language.

36. (B) Plotter – output device

Scanner – input device, converts hardcopy to digital (softcopy)

Light pen – input device for screen interaction

Touch screen – input device for touch

37. (B) Macro : A macro is a series of commands and instructions that you group together as a single command to accomplish a task automatically.

38. (B) modem is an equipment needed to allow most computers to connect to the internet.

39. (B) An Internet Service Provider (ISP) is a company that provides customer with internet access.

40. (A) Lotus 1-2-3 was a popular spread sheet program before MS-Excel became widely used.

41. (D) Design Template in MS-PowerPoint provides pre-designed layouts, colors, and backgrounds to style your slides easily.

42. (D) Text: Insert tab → text → date & time.



43. (B)

44. (B) File Explorer is the Windows tool used to browse, open, and manage files on your computer and external storage devices.

45. (B) The Network utility in Windows allows you to view connected devices, check connectivity, and manage network settings.

### ENGLISH

46. (B)

47. (C)

48. (D)

49. (D)

50. (B)