



## UNIFIED CYBER OLYMPIAD (UPDATED)

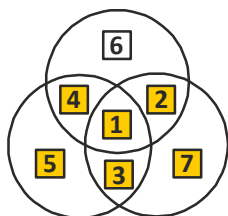
**CLASS - 3**  
**Question Paper Code : 30119**

### KEY

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

### SOLUTIONS

#### MENTAL ABILITY



01. (D)

02. (D) Two-digit number digits add to 12 ?  
possibilities: 39, 48, 57, 66, 75, 84, 93

Reversed number – original = 54

Check 39 → reversed = 93 → 93 – 39 = 54

03. (D)  $270 \div 45 = 6$

$? \div 15 = 6 \rightarrow ? = 6 \times 15 = 90$

04. (B)  $7.15 \text{ p.m.} \xleftarrow{-35 \text{ min}} 7.50 \text{ p.m.} \xleftarrow{-1 \text{ h}} 8.50 \text{ p.m.}$

Time the show started → 7.15 p.m

$6.45 \text{ p.m.} \xleftarrow{-30 \text{ min}} 7.15 \text{ p.m.}$

Time Mr Tan left his house → 6.45 p.m

05. (B) The image shows a large square divided into several smaller, equal-sized rectangles.

By observing the divisions, it can be seen that the entire large square is composed of 8 equal rectangular parts.

The area labeled 'A' is made up of 4 of these parts.

The area labeled 'B' is made up of 1 of these parts.

The area labeled 'C' is made up of 2 of these parts.

There is 1 unlabeled part.

The total number of equal parts is  $4 + 1 + 2 + 1 = 8$ .

Therefore, letter B represents 1 part out of the total 8 equal parts, which is  $\frac{1}{8}$ TH of the total area.

06. (A) Option P : 6 km 35 m

=  $6000 + 35 \text{ m} = 6035 \text{ m}$

Option Q : 6035 cm

Option R : 635 m

Option S : 6035 m

A and D are equal

07. (B) Mass of 3 '●'  $\rightarrow$

$200 + 200 + 200 - 50 - 100$

=  $600 - 150 = 450 \text{ g}$

Mass of '●'  $\rightarrow 450 \div 3 = 150 \text{ g}$

08. (C) The 'capacity' tells us how much liquid a container can hold. From the figure, we can see that the capacity is slightly more than 1 l.

09. (B) Incorrect statement : (B) A cube has 6 vertices

A cube has 8 vertices, not 6.

(A) True – A cuboid has 3 pairs of opposite faces.

(C) True – All sides of a square are equal.

(D) True – A cuboid is a three-dimensional figure.

10. (A) Cost of 1 bag = Rs. 356

Cost of 2 bags =  $356 + 356 = \text{Rs. } 712$

Hasini has Rs. 548

Money needed more =  $712 - 548 = \text{Rs. } 164$

11. (a)  $8 \times 1 \times 3 = 24$

12. (B) From 100 to 199 the numbers must start and end with 1. So 101, 111, 121, ..., 191, giving 10 palindromes. Similarly there are another 10 from 200 to 299, and 300 is not one. In total there are 20, hence (20).

13. (C) Mahesh says numbers : 30, 33, 36, 39, 42, 45 ...

Charan says numbers : 20, 25, 30, 35, 40, 45 ...

The same number in both lists is 45.

14. (C) Multiplying by 1 keeps the number unchanged.

15. (B)  $8000 + 88 = 8088$

### REASONING

16. (D) A knife is used to cut; a grater is used to shred.

17. (A) The pattern P Q R S repeats every 4 letters  
From the 9th to the 25th letter, there are  $25 - 9 + 1 = 17$  letters.

The letters from the 9th to the 25th are :

9th (P), 10th (Q), 11th (R), 12th (S)

13th (P), 14th (Q), 15th (R), 16th (S)

17th (P), 18th (Q), 19th (R), 20th (S)

21st (P), 22nd (Q), 23rd (R), 24th (S)

25th (P)

Letter P appears 5 times in this range.

18. (B) Arjun's position from left = 6

Meera's position from right = 11

Total = 20

So Meera's position from left

=  $20 - 11 + 1 = 10$

Students between =  $10 - 6 - 1 = 3$

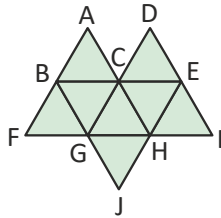
19. (B) 

20. (C) 

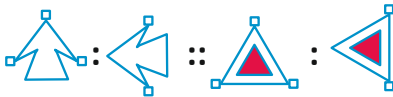
21. (A) All the vowels (A, E, I, O, U) are at odd places in the English alphabet. Therefore all 5 vowels will remain in the alphabet.

22. (C) Four similar shapes are placed inside two and outside two of the larger shape.

23. (C) All others match a quantity with its unit, but option (C) matches quantity with an instrument.
24. (A) Alternate images first fig rotating right 90 degrees and second figure rotating left 90 degrees.
25. (A) ABC, CDE, BFG, CBG, CGH, CEH, GHJ, EHI, AFH, DGI, BEJ



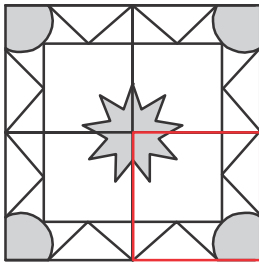
26. (B) Only option B has both small circles on the white shade, it is the odd one out.



28. (D)

3	2	5	4	2	1
1	4	3	1	3	4
2	5	2	5	2	1
4	1	3	1	4	3
3	2	4	2	5	2
4	1	3	1	3	4

29. (C)



30. (B)  $1 + 4 + 5 + 10 = 20$   
 $2 + 3 + 6 + 9 = 20$   
 $14 + 3 + 2 + 1 = 20$

### COMPUTERS

31. (D) Each hardware device has a specific function. The mouse is used to click, monitor displays and keyboard is for typing.

32. (D)



shape is not used.

33. (B) Mouse and key-board are input devices.
34. (C) Search engine – WhatsApp
35. (A) Backspace erases the character to the left of the cursor.

Delete erases the character to the right of the cursor.

Enter moves the cursor to a new line.

Spacebar adds a space.

So, the key that erases the character towards the left is Backspace.

36. (A) Quick Access tool bar.
37. (C) Typing winword in the Run box launches Microsoft Word.
38. (B) System software runs the computer and helps all other programs work (for example, Windows)
39. (C) The horizontal scroll bar moves the canvas side to side.
40. (B) Mr. A: A single page with words, pictures, and videos → Web Page  
 Mr. B: A collection of connected pages → Website
41. (A) Data (Raw facts like names and marks are called data)
42. (B) Projector (Projector shows the computer screen on a big screen)
43. (D) Windows is software, not hardware. All others are physical parts.
44. (B) Insert tab allows adding pictures, shapes, and tables
45. (A) Both mouse and keyboard are used to give input to the computer.

### ENGLISH

46. (B) "Look after" means to take care of someone.
47. (A) Brave and afraid are opposite in meaning.
48. (C) "Proficient" is the correct spelling.
49. (A) Soup can be too spicy to eat.
50. (C) The past tense of "go" is went.