# UCO
Unified
Cyber
Olympiad

## UNIFIED  CYBER  OLYMPIAD (UPDATED)

**CLASS - 4**
**Question Paper Code : UC394**

### KEY

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

### SOLUTIONS

**MENTAL ABILITY**

01. (D)  BE = BC = 5 units
EF = 5 $\Rightarrow$ HF = GH = 4
AB = 5 + 4 = 9 units
$\therefore$ length = 9 units, breadth = 5 units

02. (B)  P is common on both sides
Thus, Q + R = S + T
So (B) is true

03. (C)  Tuesday, Wednesday, Thursday

04. (C)  520 – 88 + 175 = 607

05. (D)  P is meaningless as VIX or VXI is not correct.
Q is XVI and R = XIV
$\therefore$ The difference between Q and R is
16 – 14 = 2

06. (D)  The least number having factors 2, 5, 6 = 30
The least number having factors 4, 8 = 8
$\therefore$ P = 30, Q = 8 $\Rightarrow$ P + Q = 30 + 8 = 38

07. (C)  ⊚ × ⊚ = 24 = 1 × 24
2 × 12
3 × 8
4 × 6
$\Rightarrow$ 1 + 24 = 25; 2 + 12 = 14; 3 + 8 = 11; 4 + 6 = 10
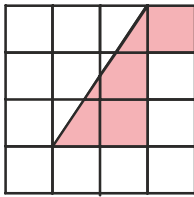$\therefore$ ⊚ = 4, ⊚ = 6, since the sum of 4 and 6 is the smallest value.

$$\therefore \quad \text{(spiral)} + \text{(spiral)} = 4 + 6 = 10$$

08. (D) Amount spent on T-shirt = Half of his money

Amount left after buying T-shirt

= ₹ (2 + 8)

= ₹ 10

As Golu spent half of his money on T-shirt, the amount left is equal to exact half of his money (i.e., ₹ 10)

∴ Total amount he had = 2 × ₹ 10 = ₹ 20

09. (B) Divide the figure into 16 small squares.



Since the area of the triangle is half that of the area of 6 small squares, it has the same area as 3 small squares.

Number of small squares shaded

= 3 + 1 = 4

Total number of small squares = 16

Fraction of the square shaded $= \dfrac{4}{16} = \dfrac{1}{4}$

10. (C) Greatest 5 digit number is 88743

Smallest 4 digit number is 3478

Their difference = 88743 – 3478 = 85,265

11. (B) Option (A) = 0.019 : This number is less than 0.08

Option (B) = 0.109 : This number is greater than 0.08 and less than 0.4

Option (C) = 0.91 : This number is greater than 0.4

Option (D) = 0.409 : This number is greater than 0.4

From the options given, only option (B) 0.109 is between 0.08 and 0.4

12. (D) 1750 ÷ 7 = 250

13. (A) If P = 10 then P + 4 = 10 + 4 = 14

14 is 4 less then Q

∴ Q = 18

∴ P < Q

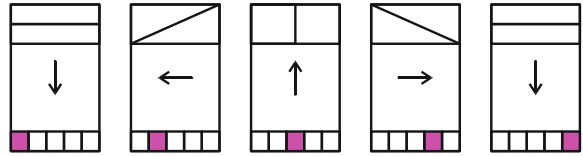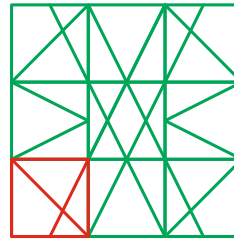14. (D) Pairs of factors of 12 are 3 × 4, 2 × 6, 1 × 12

15. (A) Number of sweets the teacher gave away

237 × 8 = 1896

Number of sweets the teacher had at first
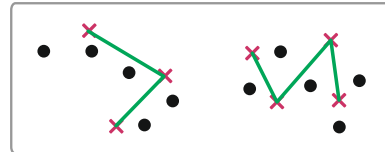
1896 + 7 = 1903

## REASONING

16. (D)



17. (C) Option (C) exactly matches with one of the given shapes.
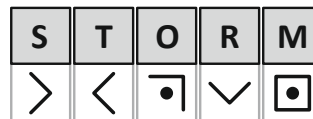
18. (A)



19. (C)



20. (B) Starting from Friday (6 days ago) → Saturday (5 days ago) → Sunday (4 days ago) → Monday (3 days ago) → Tuesday (2 days ago).

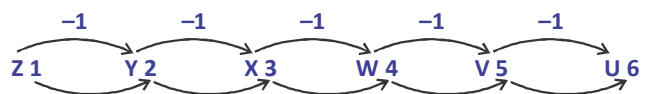21. (B) Before 'U' when counting from the end is 'V'.

22. (B)



23. (D)



24. (B)



25. (B) 20 / 5 = 4 + 2 = 6

24 / 4 = 6 + 2 = 8

55 / 11 = 5 + 2 = 7

26. (B) Total number of squares = 17

| | | | | | | | 17 |
|---|---|---|---|---|---|---|---|
| 1 | | | | | | 15 | 16 |
| 2 | 3 | | | | 14 | 13 | 12 |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |

27. (C) The letters of the word are moved two steps forward.

28. (D) Except option (D) remaining all. Adding 11 to first number in each pair we get second number. The alphabets are in sequence.

29. (C) Following the pattern, after EFG, we would have FGH and then GHI. Thus the sequence two steps later would be HIJ.

30. (C) June 27

## COMPUTERS

31. (A) The most suitable input device for high lighting or selecting an object on the screen is mouse.

32. (D) Computer classified according to purpose, functionality model and by memory and processor.

33. (A) In notepad application, the menu has only two options, "word wrap" and "font", is the format menu.

34. (C) Zooming Scale range in Notepad 2010 is 10% to 500%.

35. (C) The Logo window has an area where the turtle draws, a section to type in commands, and usually a button or command to clear the drawing. The Ribbon, on the other hand, is commonly found in Microsoft Office programs and is not a part of the Logo window.

36. (C) Rushi saved the 'Birthday Party' file in Photos folder.

37. (A) Orientation is in page set-up.

38. (B) $A^\blacktriangle$ = Increase font size

$\boxed{\text{ab}}$ ▾ = Make a text look like it was marked with a high lighter pen.

39. (A) Using the 'Find' feature, Shruti can search for specific words or phrases in her story to locate and correct her mistakes.

40. (C) The text tool in MS Paint is specially designed to add textual elements to images. The other actions listed (drawing a circle, resizing an image, changing the colour of areas) are achieved using different tools and features with in MS Paint.
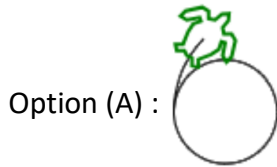
41. (D) From the given figure



(1) Brush
(2) Calligraphy brush 1
(3) Calligraphy brush 2
(4) Air brush
(5) Oil brush
(6) Crayon
(7) Marker
(8) Natural pencil
(9) Watercolour brush

42. (C) If the turtle is facing east and you want it to turn and face north, it needs to take a left turn by 90 degrees.
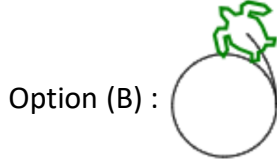
43. (B) In "windows XP", the "XP" stands for "eXPerience".

44. (B) The correct release order is Windows 95 (1995), Windows XP (2001), Windows Vista (2006), and then Windows 7 (2009).
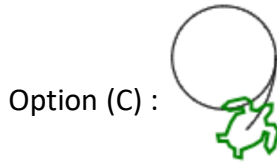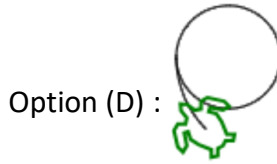
45. (A)

Option (A) : 

REPEAT 180 [FD 1 RT 2] REPEAT 45 [FD 1 RT 1]

Option (B) : 

= REPEAT 180 [FD 1 LT 2] REPEAT 45 [FD 1 LT 1]

Option (C) : 

= REPEAT 180 [BK 1 RT 2] REPEAT 45 [BK 1 RT 1]

Option (D) : 

REPEAT 180 [BK 1 LT 2] REPEAT 45 [BK 1 LT 1]

**ENGLISH**

46. (D)    Yes, you may have another chocolate.

47. (B)    The correct spelling for the word needed in this context is "specific".

48. (C)    The best fit among the given options that can replace "for a short time" and retain the meaning of the sentence is

(A) shortly - This refers more to "in a short while" and doesn't directly relate to a duration. (B) swiftly - This means "very quickly" and relates more to the speed of an action, not its duration. (C) momentarily - This means "for a very short time," and directly refers to the duration of an action. (D) quickly - This, like swiftly, refers more to the speed of an action.

49. (A)    For "throw" a synonym could be "toss". So the sentence would be

You throw the ball to her and she will toss it to me.

50. (D)    If people drove more carefully, there would be fewer accidents.

**THE END**