



Unified International Cyber Olympiad

UNIFIED INTERNATIONAL CYBER OLYMPIAD (UPDATED)

CLASS - 05

Question Paper Code : 3P124

KEY

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

SOLUTIONS

MENTAL ABILITY

01. (C) Each dragonfly is accompanied by 2 butterflies, so 1 dragonfly and 2 butterflies make 3 insects.

Since 9 insects occupy the flowerpots:

$$9 \div 3 = 3 \text{ groups}$$

Each group has 2 butterflies.

So, $3 \times 2 = 6$ butterflies.

02. (A) The first four multiples of a number are $1\times$, $2\times$, $3\times$, and $4\times$ the number. Their sum is 10 times the number, which is always a multiple of 10.

03. (A) The digit 7 is in the Millions place, so its value is 7,000,000.

04. (C) Five equal parts make one whole, so each part is one-fifth. Removing one-fifth from the whole leaves four-fifths, which is 4 copies of one-fifth.

05. (D) From the first scale, the pineapple weighs 3 kg.

From the second scale, the other fruit weighs $3 \text{ kg} + 2 \text{ kg} = 5 \text{ kg}$.

From the third scale, the watermelon weighs $5 \text{ kg} + 1 \text{ kg} = 6 \text{ kg}$.

Therefore, the weight of the watermelon is 6 kg.

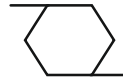
06. (C) The total sum of all the card numbers must be shared equally among the groups. Therefore, the number of groups must be a factor of the total sum. So, the first concept to use is factors of the total sum.
07. (C) $24 \times 60 = 1440$ minutes.
08. (B) The three pieces are 30 cm, 60 cm, and 75 cm. The longest piece is 75 cm, which is 15 cm longer than the second piece (60 cm). Therefore, Option B is correct.
09. (D) Try 6 Rs. 5 coins. Then there are 6 Rs. 1 coins and 12 Rs. 2 coins.
Total value = Rs. 30 + Rs. 6 + Rs. 24 = Rs. 60.
So, the purse contains 6 Rs. 5 coins.
10. (A) Container R can hold 5 L. After pouring the liquids, 0.5 L is still empty.
So, the empty fraction is:
 $0.5 \text{ L} \div 5 \text{ L} = 1/10$
11. (B) Both 1000×4.275 and 42.75×100 equal 4275.
12. (A) Bhavya receives 4 shares, Aarav receives 1 share, and Charan receives 1 share - 56.
So, add 56 to 496 to make 6 equal shares, then divide by 6.
13. (D) $63 \div 81 = \frac{63}{81} = \frac{7}{9}$
To make the denominator 27, multiply both numerator and denominator by 3
 $\frac{7}{9} = \frac{21}{27}$
Therefore, the missing number is 21
14. (C) The greatest number that rounds to 48,700 is 48,749.
The smallest number that rounds to 120,000 is 119,500.
So, $119,500 - 48,749 = 70,751$.
15. (C) Three tomatoes = 30, so one tomato = 10
Cherry pair + 10 + Cherry pair = 28
So, two cherry pairs = 18, therefore one cherry pair = 9
Strawberry + 10 + 9 = 30
So, Strawberry = $30 - 19 = 11$

REASONING

16. (C) glide, emerge, cure, embed
17. (D) The only possible statement is $54 \times 2 = 108$. So, the hundreds digit is 1.

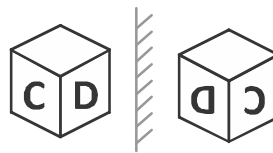


18. (B)

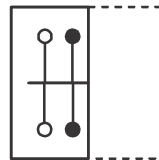


19. (C)

20. (B) Blood is red → RED is coded as BLUE



21. (B)



22. (D)

23. (C) B(2), D(4), F(6) → +2 each

24. (B) A caterpillar grows into a butterfly. Similarly, a tadpole grows into a frog. Both show the young stage and the adult stage of an animal.

25. (D) Each figure contains at least one obtuse angle, so Option D correctly describes all the figures.

26. (D) Interchange the letters as instructed to get the new arrangement:

FOUNDATION ? ATIONFOUND

Counting from the right:

D (1), N (2), U (3), O (4), F (5), N (6)

Hence, the 6th letter from the right is N.

27. (A) $9 + 9 + 9 + 9 = 36$

28. (C) The number of asterisks inside the large circle increases by one in each figure. The filled black dot remains at the top-right corner, and the hollow circle outside the large circle alternates between the bottom-left and bottom-right corners.

29. (D) $G = 7$, should pair with 8
 $A(1) + 1 = 2$, $C(3) + 1 = 4$, $E(5) + 1 = 6$,
 $G(7) + 2 = 9 \rightarrow$ odd one
30. (A) 1, 2, 3 has two lines; 4, 5, 6 has three lines; 7, 8, 9 has four lines.

COMPUTERS

31. (D) MS Word $\rightarrow$ suitable for creating and arranging text, tables, charts, and pictures in a document.
 Keyboard $\rightarrow$ suitable for typing the content.
32. (C) Microsoft Word is an application used to create, edit, and format text documents such as letters, reports, essays, and project assignments. It provides tools to change fonts, align text, insert tables and pictures, and print documents
33. (C) Dragging slides to change their order is easiest and most appropriate in Slide Sorter View.
34. (A) First insert the USB drive, then open the file, then Save As and choose the USB drive to store the file.
35. (B) Copying creates a duplicate. Deleting the copied file in Folder B does not affect the original file in Folder A.
36. (D) Both Hard Disk and Pen Drive are non-volatile storage devices, so they retain data even after the computer is switched off.
37. (A) The modem connects the computer to the Internet, the ISP provides Internet service, and a web browser opens websites.
38. (B) Win + E opens File Explorer.
- Win + D shows the Desktop by minimizing all open windows. Pressing Win + D again restores all the previously open windows, making it a toggle shortcut between the Desktop and the open windows.
 - Alt + Tab switches between open windows or applications. It does not specifically show the Desktop or restore all previously minimized windows
 - Win + L locks the computer and takes the user to the lock screen.

“Therefore, Win + D is the only shortcut that shows the Desktop and restores the previously open windows when pressed again.

39. (A) Paint, Hard Disk, and Bluetooth because it is the only option that includes all three required components. Paint is a drawing application used to create pictures and posters. A Hard Disk stores the poster permanently, so it remains available even after the computer is turned off. Bluetooth is a Wireless Personal Area Network (WPAN) technology that allows files to be transferred wirelessly between nearby devices.
40. (A) The Fill with Color tool works correctly only inside a closed boundary. If the boundary is open, the colour spreads outside.
41. (B) Howard Aiken led the development of the Harvard Mark I. The other inventors are matched incorrectly.
42. (C) FD 40 $\rightarrow$ East (40)
 LT 90 $\rightarrow$ North
 FD 40 $\rightarrow$ North (40)
 RT 90 $\rightarrow$ East
 FD 40 $\rightarrow$ East (another 40)
 Final position = 80 units East and 40 units North
43. (C) RT changes only the direction. The turtle remains at the same position.
44. (B) Animation shows movement and changes over time, making it ideal for explaining dynamic processes like a volcanic eruption.
45. (C) Each duplication creates one new slide.
 $12 + 2 = 14$ slides.

ENGLISH

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