UNIFIED COUNCIL
An ISO 9001:2008 Certified Organisation

UCO
Unified Cyber Olympiad

UNIFIED CYBER OLYMPIAD - 2013 (LEVEL - 2)

Solutions for class : 2

Mental Ability

1. **(C)** 10 tens = 100

   6 tens 6 ones = 66

   ∴ 10 tens – 6 tens 6 ones = 100 – 66 = 34 = 34 ones = (20 + 14) ones

   Hence, the missing numbers are 20 and 14.

2. **(B)** Number of beans = 252

   Number of beans each child received = 9

   ∴ Number of children = 252 ÷ 9 = 28

   Number of boys in the group = 13

   ∴ **Number of girls = 28 – 13 = 15**

3. **(B)**

Option	No. of straight lines
A	10
B	32
C	6
D	23

   Thus, the figure in option (B) has more number of straight lines than the others.

4. **(D)** 680 > 476 > 327 > 89

   ⟹ **Lion, Tiger, Zebra, Gorilla.**

5. **(C)** Items bought by Varun are a cap, a pair of socks and a ball.

   Their total cost = ₹ (5 + 6 + 7) = ₹ 18

   Amount received as change = ₹ (50 – 18) **= ₹ 32**

6. **(A)** No. of umbrellas sold on Saturday = 150
   Number of umbrellas sold on Sunday = **5 × 150 = 750**

7. **(B)** The time between 8 o'clock and half past 9 is **8: 30 which is shown on the clock in option (B).**

8. **(A)**

   Hence, the required least no. of dots is **12**.

9. **(B)** The numbers on the 2nd and 3rd squares from the left are 1 and 4. Hence, their sum is **5**.

10. **(A)** In each of the figures, the number in the centre is the sum of the numbers below it minus the number above it.

    ⟹ 116 = 36 + 92 – 12 and 82 = 24 + 83 – 25

    Similarly, the missing number

    = 95 + 27 – 14 = 122 – 14

    = 108

11. **(C)** End time of the journey = 11 a.m. and duration of the journey = 3 hours

    ∴ Start time of the journey = 11 – 3

    = 8 a.m.

12. **(C)** The figure **in option (C) has 4 equal parts of which only 1 is shaded**. So, $\frac{3}{4}$ of it is not shaded.

13. **(D)** In the given figure, there are 3 cones and 5 cylinders. Their product is **3 × 5 = 15**.

14. **(C)** According to the given figures.
    Sanjay > Anil > Pavan > Jai (in weight)
    ∴ **The required order is Sanjay, Anil, Pavan, Jai.**

15. **(B)** 9 = 3 + 6. So, the missing number is 6.

    i.e., 36 = 12 + 24

Reasoning

16. **(A)** The figure in option (A) is the next in the given series as a bead is moving up sequentially in each step.
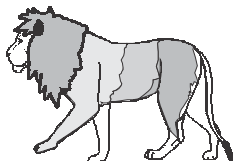
17. **(B)** Given,

3 lines + 2 lines = 5 lines

Similarly,

2 lines + 2 lines = 4 lines

Of the given options, the letter $\bigwedge$ is made of 4 lines.
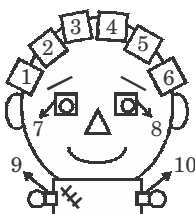
18. **(D)**

19. **(A)** Books are kept in a bag. Similarly, money is kept in a wallet.

20. **(D)** Of the given options, a puppy is hidden in the option (D) as shown.

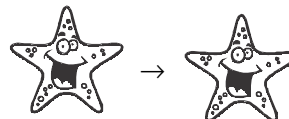21. **(A)** Number each square in the given figure as shown.

Hence, there are 10 squares in the given figure.

22. **(B)** The image in option (B) is that of a parachute used to reduce the speed of freely following body.

23. **(A)** From the given figure,

as $\square = \bigcirc\bigcirc$,

$\square\square\bigcirc\bigcirc = \bigcirc\bigcirc\bigcirc\bigcirc\bigcirc$

24. **(C)** Moving from left to right, the size of the animals increases. So, the required next one is a dog.

25. **(A)** The objects in the first pair are used for sending messages, while those in the second pair are used for transportation.
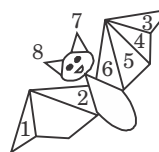
26. **(D)** The shape '⊹' is hidden in the figure in option (D).

27. **(B)** The figure in option (B) is exactly the same as the question figure.

28. **(C)**

There are 8 triangles as shown in the given figure.

29. **(B)** The alphabets given in all options are continuous. But in option 'B' they are not. The letter after 'I' is 'J' and not 'K'.

30. **(C)** A sequence of 8 smileys is continuously repeating in the series. It is

.

∴ The missing smileys in the sequence is '', as in option (C).

Computers

31. **(B)** Of the given options printer is the output device of a computer.

32. **(A)** Calculator is an electronic machine used for calculations.

33. **(C)** Backspace key is used to delete any text or character to the left of the current position of the cursor.

34. **(D)** Speakers and microphone are examples of multimedia devices.

35. **(A)** A computer is used in space research for launching satellites.

36. **(A)** A laptop can be a personal computer but a personal computer cannot be a laptop. So, only Karan is correct.

37. **(B)** CPU stands for Central Processing Unit.

38. **(D)** The storage capacity of a floppy disk is 1.44 MB.

39. **(A)** ⇧ Shift + #3 is the combination of keys used to type the '#' symbol.

40. **(B)** The figure in option (B) indicates a person listening to music using a computer.

41. **(C)** The figure in option (C) is a personal computer.

42. **(C)** Drag and drop action of the mouse changes the position of an item on the monitor.

43. **(C)** The numeric keypad is a 17-key keypad which is located to the right of the keyboard.

44. **(B)** The arrow marked part of the CPU is CD-ROM drive used to place CD's.

45. **(A)** Computers can work at high speed. They do not make mistakes and never get tired. A computer can store a lot of information.

English

46. **(B)** 'I' must be capitalised as it is the first word that begins the sentence.

47. **(A)** You <u>sing</u> a song.

48. **(C)** Army – Armies.

Nouns ending in -y, preceded by a consonant, form their plurals by changing -y into -i and -es.

49. **(D)** Forgive - Forgave (Past tense)

50. **(B)** Internal × External

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