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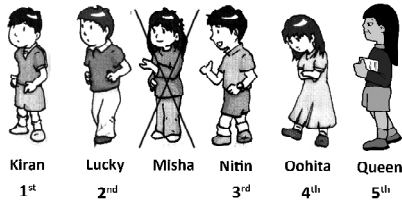
UCO
Unified
Cyber
Olympiad

UNIFIED CYBER OLYMPIAD - UC305 (LEVEL - 1)

Solutions for class : 2

Mental Ability

1. **(D)**

Kiran 1st, Lucky 2nd, Misha 3rd, Nitin 3rd, Oohita 4th, Queen 5th

Hence, **Oohita** stands **4th** in the queue.

2. **(C)**

1 group

$6 \times 4 = 24$
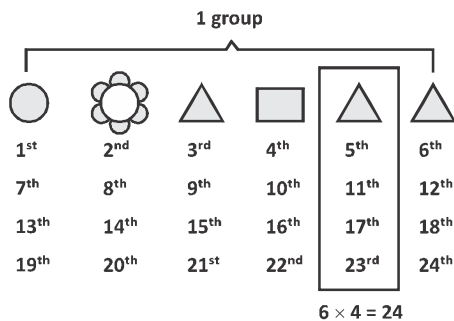
$\therefore$ 23rd shape is **same as 5th shape** in the pattern.

i.e., 23rd shape $\rightarrow$ △

3. **(D)** Number of stars used on each tree = 3

Number of bells used on each tree = 5

Number of trees = 5

Total number of stars used = $3 \times 5 = 15$

Total number of bells used = $5 \times 5 = 25$

$\therefore$ Number of bells more than stars
= **25 – 15 = 10**

4. **(B)** Age of Nitya's daughter = 18

Age of Nitya = 18 + 23 = 41

Age of Nitya in 5 years time = 41 + 5 = 46
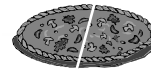
Hence, Nitya will be **46 years** old in 5 years time.

5. **(B)** 63 – 18 = 45, 40 – 25 = 15,

80 – 14 = 66, 78 – 35 = 43

Since, 15 is the least difference obtained, the required answer is **40 – 25.**

6. **(C)** $526 = 520 + 6 = 52 \times 10 + 6 \times 1$

$= 52$ tens 6 ones

$\therefore$ **P = 52, Q = 6**

7. **(A)** Total number of bananas = $6 \times 4 = 24$ and bananas eaten = 7

$\therefore$ Remaining number of bananas = **24 – 7 = 17**

8. **(B)** Time taken to slice a pizza into 2 equal pieces = 5 min.

To get 8 pieces, we required 4 cuts.

Time taken to slice same pizza into 8 equal pieces = **4 × 5 = 20 min.**

9. **(B)**

10. **(A)** Cost of Teddy bear = ₹ 120

Amount Suma needs more to buy teddy bear = ₹ 35

Amount Suma have now = ₹**(120 – 35) = ₹ 85**

11. **(C)** Number of 🍎 in X = 7 and in Y = 5.

Total 🍎 = 7 + 5 = 12 = 4 + 4 + 4

∴ X should have 4 and Y should have 8 🍎

Hence, **3** 🍎 **must be moved** from X to Y.

12. **(B)** Cost of 2 oranges = ₹ 10

∴ Cost of 6 oranges = ₹ 10 × 3 = ₹ 30

Cost of 5 bananas = 5 × ₹ 4 = ₹ 20 and cost of 4 pineapples = 2 × ₹ 50 = ₹ 100

∴ Their total cost = ₹ (30 + 20 + 100)

= ₹ **150**

13. **(C)** If the blanket is heavy there will be more curve in the string towards the ground.

14. **(B)** The figures **b** and **c** are divided into equal parts.

15. **(C)** **5: 20 p.m.** is between 5: 00 p.m. and 6: 00 p.m.

Reasoning

16. **(B)** The first candy is similar to the fourth candy (i.e.,) we can say that the pattern is repeating after every three candies.

Hence, the candy which can replace Q should be **similar to the second candy** in the given row.

17. **(C)**
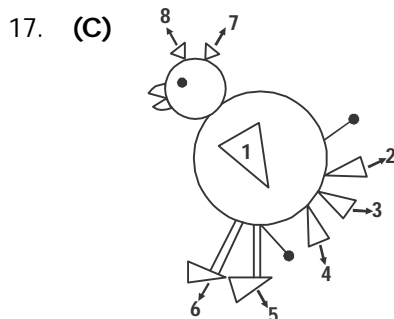
Hence, there are **8 triangles** in the given figure.

18. **(B)** Given,

☆ = ○○○

∴ 10 ○'s = ☆ ☆ ☆ ○

19. **(C)** Except in **option (C)** all other shirts have 5 buttons.

20. **(B)** Guitar is to clarinet as hammer is to saw. This relationship is about grouping. The guitar and clarinet are musical instruments. The hammer and **saw** are carpentry tools.

21. **(D)** The given shape ⬭ is hidden in the figure shown in **option (D)**.

22. **(B)** Except **option (B)**, the remaining things gives light through electricity.

23. **(B)** The given figure is similar to the figure in **option (B)**.

24. **(A)**
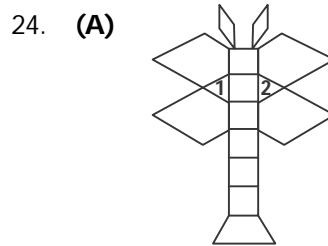

Hence, the number of triangles is **2**.

25. **(A)** The number of marbles in the bag decreases by 1 and the number of marbles outside the bag increases by 1 after each step.

26. **(A)** The given figure of octapus is exactly same as the figure in **option (A)**

27. **(C)**
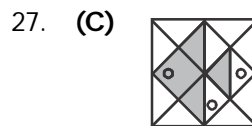
Hence, the given shape is hidden in the **option (C)**.

28. **(D)** The given teddy bear is exactly same as the teddy bear in **option (D)**.

29. **(D)** The **last two digits** in each pair are **interchanged**.

30. **(B)** According to the given problem, there are two letters between B and E. Similarly one letter between P and R. Hence, there are two letters between A and D. Hence, the missing number is **2**.

Computers

31. **(A)** **Webcam** is a device which is used to take photographs, record videos and for video chatting.

32. **(B)** **ASCII** stands for American standard Code for Inforamtion Interchange which is a code for representing English character with corresponding numbers.

33. **(D)** **Windows** is an operating system which is a software.

34. **(C)** To access an object, you can **right click** the mouse on the object so that a menu will appear.

35. **(C)** Computers are used in hospitals **for preparing medical reports of patients**.

36. **(C)** [Tab ⇄]

37. **(C)** **Speakers** are required to listen to music.

38. **(B)** There are **104 keys** on a standard Microsoft keyboard.

39. **(A)** **C.P.U.** is used for processing data.

40. **(A)** ⎡Num Lock⎤ key is used to activate numeric keypad.

41. **(D)** Facts entered into a computer is known as **data**.

42. **(B)** In films or movies, **animations** are created using computers.

43. **(D)** **Computer** is an electronic device which processes and stores information.

44. **(A)** **Monitor** of computer is useful to view information on a screen.

45. **(D)** Computers are used for printing and designing newspapers in **publishing**.

English

46. **(D)** Aarthi is sleeping **in** a tent.

47. **(B)** **Tomorrow**

48. **(D)** The meaningful word that can be formed from the letters, I, D, B and R is **BIRD**.

49. **(C)** The meaningful sentence formed is

he	is	my	cousin
3	4	2	1

50. **(A)** The word which comes first in the dictionary is **Desk**.