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UNIFIED COUNCIL OLYMPIADS

UIC
Unified International Cyber Olympiad

UNIFIED INTERNATIONAL CYBER OLYMPIAD (UPDATED)

CLASS - 4

Question Paper Code : 3B127

KEY

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

SOLUTIONS

MENTAL ABILITY

1. **(D)** In proper fraction numerator is more and denominator is less

   The 3 options are in proper fraction

2. **(C)** The apparent intended pattern is division by 3:

   $243 \div 3 = 81$, $81 \div 3 = 27$, $27 \div 3 = 9$

3. Delete

4. Delete

5. **(B)** $\frac{15}{18}$ and $\frac{20}{24}$ both simplify to $\frac{5}{6}$.

6. **(C)** Weight of a can with ghee = 15 kg

   Ghee used by mother = 7 kg 300 g

   = 7 kg 300 g

   1 kg = 1000 g

   15 kg = 15000 g

   7 kg = 7000 g + 300 g

   = 7300 g

   = 15000 – 7300

   = 7700 g = 7 kg 700 g.

7. **(A)** 52 weeks contain 52 × 7 = 364days. Hence, 366 – 364 = 2days remain.

8. **(C)** 500 notes of Rs. 500 each make Rs. 2,50,000.

9. **(B)** There are 1425 boys, 1700 girls, and 750 teachers, giving a total of 3875.

10. **(D)** However, there is a terminology error in the question.

"Hundredths" is the place, while the place value of 5 is 0.05.

11. **(D)** Option (D) : 810 cm $\neq$ 8 m 10 mm

810 cm = 8 m 10 cm

12. **(C)** Option (A) : W and X

$1l$ 480 ml + $1l$ 250 ml

= $2l$ 730 ml = 2.73 l

Option (B) : X and Y

$1l$ 250 ml + $1l$ 420 ml

= $2l$ 670 ml = 2.67 ml

Option (C) : X and Z

$1l$ 250 ml + $1l$ 500 ml

= $2l$ 750 ml = 2.75 ml

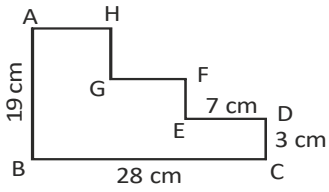
Option (D) : Y and Z

$1l$ 420 ml + $1l$ 500 ml

= $2l$ 920 ml = 2.92 ml

13. **(A)** The number 0 is divisible by every whole number except itself, because any non-zero whole number multiplied by 0 equals 0 (for example, 0 ÷ 5 = 0). In mathematics, 0 divided by any non-zero number always results in a whole number (0), satisfying the definition of divisibility.

14. **(C)**



We need to note that

GH + EF + CD = 19 cm

Similarly, AH + GF + ED = 28 cm

Perimeter $\rightarrow$ 19 + 28 + 19 + 28

= 94 cm

15. **(B)** The train starts at 10 : 50 p.m. After 3 hours, it is 1 : 50 a.m. Adding another 35 minutes gives 2 : 25 a.m.

REASONING

16. **(A)** (1, 4, 7) (2, 5, 8) (3, 6, 9) is the correct option.

17. **(A)** Riya is above Amit, while Kiran is to Amit's right. Hence, from Riya, Kiran lies diagonally down and to the right, i.e. South-East.

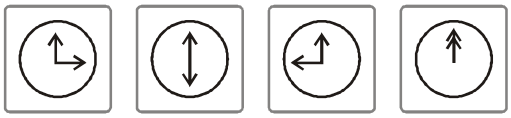
18. **(B)** In a mirror image, the word appears laterally inverted. The rightmost letter T appears first, followed by the mirror images of N, A, L, and P.

19. **(D)** Total 9 rectangles in the given figure.

20. **(C)** A thermometer measures temperature, while a barometer measures atmospheric (air) pressure. Therefore, the same relationship.

21. **(A)** V : W :: $\wedge$: M

22. **(D)**

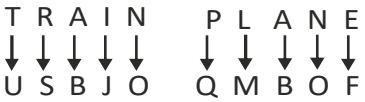


23. **(B)** Since BOOK = L1 in both statements, the remaining code TO must represent BAG.

24. **(B)** Option (B) is different from others.

25. **(A)** TRAIN $\rightarrow$ USBJO

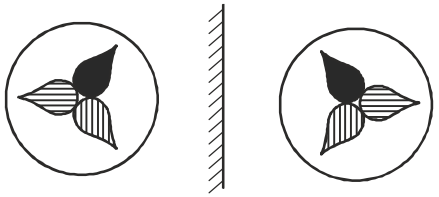
Each letter moves one step forward in the alphabet:



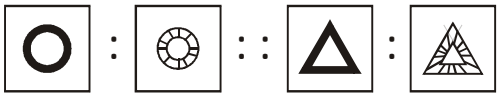
26. **(C)** Mercury, the Moon, and Jupiter are celestial bodies, whereas mass is a physical quantity.

27. Delete

28. **(D)**



29. **(B)**



30. **(A)** Initial letters are:

Anchor, Drum, Fan, House, Jug, ?

From D onward, the letters increase by 2:

D → F → H → J → L

So the next word should begin with L.

COMPUTERS

31. **(A)** MS-DOS mainly uses a command-line interface, where users type commands to perform tasks. The other operating systems mainly use graphical interfaces.

32. **(B)** The Select All option selects the entire drawing or canvas at the same time.

33. **(C)** The taskbar usually contains the Start button, pinned or open apps, and the clock.

34. **(A)** In MSWLogo, the BYE command exits the program

35. **(B)** In LOGO, BK means BACKWARD. Therefore, BK 80 moves the turtle backward by 80 steps without changing the direction it is facing.

36. **(B)** Ctrl + N creates a new blank drawing in MS Paint.

(A) Ctrl + O → Open

(C) Ctrl + S → Save

(D) Ctrl + W → Close

37. **(C)** Clicking restore button, the window turn to its previous size.

38. **(A)** For a regular pentagon

Number of sides = 5

Exterior angle = 360° ÷ 5 = 72°

∴ REPEAT 5 [FD 180 RT 72]

Draws 5 equal sides with a 72° turn after each side, forming a regular pentagon. The side

length 180 only changes the size of the pentagon.

39. **(B)** Third-generation computers used Integrated Circuits (ICs). Vacuum tubes were used in the first generation, while LSI and VLSI technologies came later.

40. **(C)** 1024 byte is equal to 1 kilobyte.

41. **(C)** An operating system manages the computer's hardware and software resources and provides the environment needed to run programs.

42. **(C)** Directory.

43. **(A)** MS-Dos is a command line user interface.

44. **(B)** Second-generation computers used transistors and are commonly placed in the period 1956–1963 in school textbooks. Third-generation computers, which used integrated circuits (ICs), began around 1964.

45. **(D)** Pascal's calculator invented by Blaise pascal in the early 17th century.

ENGLISH

46. **(D)** Pencil is a countable noun because we can say one pencil, two pencils, etc. Rice, water and sugar are generally uncountable nouns.

47. **(D)** Interjection

48. **(C)** A generous person willingly gives or shares, whereas a selfish person mainly thinks about their own needs.

49. **(A)** Get along well with someone means to have a friendly relationship with that person

50. **(C)** A bird flies, while a fish swims. The relationship is animal : its typical mode of movement.

The End