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UNIFIED COUNCIL OLYMPIADS

UIC
Unified International Cyber Olympiad

UNIFIED INTERNATIONAL CYBER OLYMPIAD

CLASS - 5

Question Paper Code : 3B127

KEY

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

SOLUTIONS

MENTAL ABILITY

1. **(D)** The bottle contained $\frac{4}{5}$ juice and meera drank $\frac{3}{4}$ of that amount. Therefor, she drank of the whole bottle.

2. Delete

3. **(B,D)** Option (A) : $8 \times \frac{1}{5} = \frac{8}{5}$

   Option (B) : $\frac{4}{5} + \frac{4}{5} = \frac{8}{5}$

   Option (C) : $\frac{5}{5} \times 8 = 1 \times 8 = 8$

   Option (D) : $1 + \frac{3}{5} = \frac{5+3}{5} = \frac{8}{5}$

4. **(C)** Among 305, 30.5, 350, 305 the greatest value is 350.

5. **(A)** In 7.483, the second digit to the right of the decimal point is 8, which is in the hundredths place. It is labelled R.

6. **(B, C)** Given : LCM = m

   HCF = n

   The two numbers are co-prime

   For co-prime numbers, the HCF is always: n = 1

   So both (B) n = 1and (C) n = 1are correct.

7. **(A)** Weight of rice in his stock = 46 kg 750 kg

Weight of rice sold = 28 kg 850 g

Rice left = 46 kg 750 g – 28 kg 850 g.

= 46750 – 28850

= 17900 = 17 kg 900 g.

8. **(A, D)**

In the number:4,08,27,615 the digit 8 is in the lakhs place, so its place value is:

8,00,000

Both of these options mean the same thing:

Option : (A) eight lakhs

Option : (D) 8 lakhs

9. **(C)** All the fractions have the same numerator 31. When numerators are the same, the fraction with the smallest denominator has the greatest value.

Since

30 < 32 < 35 < 40

$\frac{31}{30}$ is the greatest

10. **(C)** 18 notebooks cost Rs. 261

261 ÷ 18 = 14.50

Answer (C) : Rs. 14.50

11. **(C)** $3\frac{3}{4}$ litres = 3.75 litres

1 litre = 1000 millilitres

3.75 × 1000 = 3750 ml

$3\frac{3}{4}$ litres is equal to 3750 ml

12. **(C)** If we distribute 5 pens to each children then for 19 children = 19 × 5 = 95

But for 5 children got 1 pen less i.e., 4 pens

= 95 – 5 = 90 pens

Pens in the box = 90

13. **(B)** Factors of 18 are : 1, 2, 3, 6, 9, 18

Their sum is 1 + 2 + 3 + 6 + 9 + 18 = 39

All the positive factors of 18 add up to 39.

14. **(B)** Time on the given clock is 8 : 40

8 : 40 + 85 sec + 50 sec

1 min = 60 sec

8 : 40 min + 120 sec + 15 sec

8 : 40 min + 2 min + 15 sec

15 past 8 : 42 min

15. **(C)** $18 = 2 \times 3^2$

$24 = 2^3 \times 3$

$30 = 2 \times 3 \times 5$

Taking the highest powers

LCM = $2^3 \times 3^2 \times 5 = 8 \times 9 \times 5 = 360$

360 is the smallest number that is exactly divisible by 18, 24 and 30.

REASONING

16. **(B)** Option (B) is most similar to the given figure.

17. **(A)** UWD → TVC

Each letter moves one step backward in the alphabet:

U W D
↓ ↓ ↓
Y C Z

18. **(C)** Option (C) is the correct matching pair.

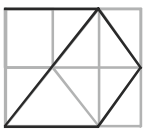
19. **(C)** There are 4 occurrences where 3 comes immediately after 7 and is not followed by 5.

20. **(C)** Option (C) is different.

21. **(D)** CDE, IJK, OPQ, UVW, ABC

The starting letter of each group advances by 6 positions, and each group consists of three consecutive letters.

22. Delete

23. **(B)** 

24. **(C)** The total number of flagpoles in the row is 33.

25. **(B)** The rule is: move the last letter to the beginning.

- SILK → K + SIL = KSIL
- BOAT → T + BOA = TBOA

26. **(D)** After "Bas", compare the next letters: e, i, k. Among the "Basi…" words, Basic < Basil < Basin.

27. **(C)** Pattern:

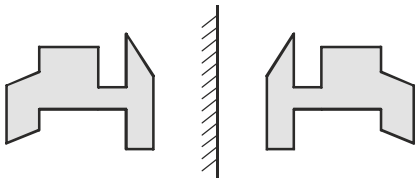
(Top × Left) + Right = Bottom

First figure: 8 × 5 + 3 = 43

Third figure: 7 × 4 + 3 = 31

So for the middle figure:

9 × 6 + 5 = 54 + 5 = 59

28. **(B)** 

29. **(C)** Adding '|' horizontal line and '|' vertical line to the previous one.

30. **(C)** Letters : TENPLA

They can be rearranged to form:

PLANET → last letter T

COMPUTERS

31. **(A,B,C)**

ROM, PROM, and EPROM are all non-volatile memories because they retain data even when power is switched off. Registers are volatile. So (A), (B), and (C) are all correct.

32. **(C)** In 3rd Genertion Computers transistors were replaced by integrated chips. Option (C) is correct.

33. **(C)** Use an energy saver

34. **(C)** The Restore Down button changes a maximized window back to its previous size.

35. **(D)** Word star, Word perfect and Professional write are related to Word processing software package.

Option (D) is correct.

36. **(D)** fd 50 draws one side of length 50.

rt 90 turns the turtle by a right angle.

Repeating this 4 times creates 4 equal sides and 4 right angles.

So, the turtle draws a square.

37. **(D)** Tab is used to select one hyperlink after another during a slide presentation.

38. **(C)** In the conventional binary-based school definition,

1 KB =1024 bytes

Also:

1 nibble = 4 bits

1 byte = 8 bits

1 MB = 1024 KB

39. **(C)** Both (A) and (B) options are used to open calculator. Option (C) is correct.

40. **(B)** Spell Check identifies misspelled words and usually marks them while you type. AutoCorrect may automatically fix some common typing errors, but Spell Check is the feature specifically used to find spelling mistakes.

41. **(A)** The result of the given command in LOGO is square. Option (A) is correct.

42. **(C)** A plain text file is commonly saved with the .TXT extension, and it can be opened and edited in Notepad.

43. **(D)** Thinking is not an characteristic of the computer. Option (D) is correct.

44. **(A)** Alt + F4 is the shortcut command to exit any opened window.

45. **(A)** Ctrl + N creates a new blank document in MS Word.

- Ctrl + O → Open a document
- Ctrl + S → Save a document
- Ctrl + Z → Undo the last action

ENGLISH

46. **(A)** Ran is the past tense form of the verb run.

Runs → present tense

Running → present participle/gerund form

Runner → noun

47. **(C)** Forbid

48. **(B)** A penny for your <u>thoughts</u>

49. **(C)** Children is plural, so it takes were. The pronoun it is singular, so it takes was.

50. **(C)** We use an before elephant because it begins with a vowel sound. We use a before river and school trip because they are non-specific singular nouns beginning with consonant sounds.

The End