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UNIFIED COUNCIL OLYMPIADS

UIC
Unified International Cyber Olympiad

UNIFIED INTERNATIONAL CYBER OLYMPIAD

CLASS - 7

Question Paper Code : 3B127

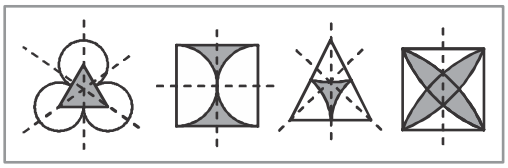
KEY

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

SOLUTIONS

MENTAL ABILITY

1. **(B)**



2. **(C)** Given $2\pi R = 3\pi \Rightarrow R = \frac{3}{2}$ units

Given $2\pi r = \pi \Rightarrow r = \frac{1}{2}$ units

Decreased area = $\pi\left(\frac{3}{2}\right)^2 - \pi\left(\frac{1}{2}\right)^2 = 2\pi$ units^2

Decreased percentage =

$$\frac{2\pi}{\left(\frac{9\pi}{4}\right)} \times 100 = 88\frac{8}{9}\%$$

3. **(A)** $\frac{1\times 9+5}{9} = \frac{14}{9}$

4. **(A)** Area of the shaded region =

$\frac{1}{2}$ × 30 cm × 25 cm = 375 cm

5. **(B)** Let the required number be x

Given $\frac{-8}{39} \times x = 26$

$$x = 13 \times \frac{39}{-4} = \frac{-507}{4}$$

6. **(B)** $a^\circ = 1$ where $a \neq 0$.

7. **(D)** $\frac{5}{2} + \frac{26}{7} \times \frac{3}{13} - \frac{1}{2} \times \frac{1}{4}$

$$= \frac{5}{2} + \frac{6}{7} - \frac{1}{8}$$

$$= \frac{140 + 48 - 7}{56}$$

$$= \frac{181}{56} = 3\frac{13}{56}$$

8. **(C)** 7 cm + 10 cm > 13 cm

9. **(A)** All the letters in option (A) have a vertical line of symmetry.

10. **(A)** Distance between any two small consecutive parts is $\frac{1}{6}$

$$\therefore \quad y - x = \frac{5}{6}$$

11. **(A)** Sum of '5' numbers = 27 × 5 = 135

Sum of 4 numbers = 4 × 25 = 100

Excluded number = 135 – 100 = 35

12. **(B)** 66 = 2 × 3 × 11, which has three distinet prime factors.

13. (D) Let the other number be x

Given $-6x = -48$

$$x = \frac{-48}{-6} = 8$$

14. (C) Number of factors

= (2 +1)(3 + 1)

= 3 × 4 = 12

15. (C) $\frac{2}{3}p = 3\frac{1}{2} + 2\frac{1}{2}$

$$p = 6 \times \frac{3}{2} = 9$$

REASONING

16. **(C)** 48 × 6 – 9 ÷ 3 + 12 = 288 – 3 + 12 = 297

17. **(C)** 9 × 7 + 4 × 3 $\Rightarrow$ 63 + 12 = 75

7 × 6 + 3 × 5 $\Rightarrow$ 42 + 15 = 57

8 × 3 + 9 × 4 $\Rightarrow$ 24 + 36 = 60

18. **(B)** 12 × 8 = 96

15 × 8 = 120

16 × 8 = 128

13 × 9 = 117

option (B) is different from others.

19. **(D)** 7 triangles are there in the given figure.

20. **(B)** Gloves for hand. Hat is for head.

21. **(B)** Shift each letter 2 places backward.

22. **(D)** 586, 584, 587, 582

4 sequences.

23. **(B)** North

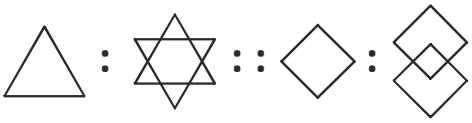
24. **(A)** 

25. **(D)** I K J X, K K L X, M K N X, _____ Q K R X.

O K P X is the missing term.

I, J, K, L, M, N, O, P, Q, R

K and X is placed between two letters.

26. **(C)** 

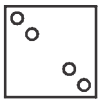
27. **(D)** 1 2 3 4 5 6 7 8

C O N T R A C T

1, 2, 4, 5, 6th letters are C O T R A

ACTOR word formed using these letters middle word is 'T'.

28. **(B)** 

29. **(C)** 

30. **(C)** In BOATMAN 'A' is used in two times. So, BOATMAN is not formed using given word.

COMPUTERS

31. **(C)** 1-D, 2-C, 3-B, 4-A

32. **(B)** Ctrl + ↓

33. **(B)** Ctrl + Pageup

34. **(A)** B A S I C → Beginners all purpose symbolic instruction code.

35. **(D)** BASIC, QBASIC, GWBASIC are all the versions of Basic language where as logo is different language.

36. **(D)** com.altavista.www is wrong/incorrect URL.

37. **(B)** The mouse, joystick and light pen are examples of pointing devices.

38. **(B)** In order to perform a calculation in a spread sheet, you use formula.

39. **(B)** F8 is used to convert an object to symbol in flash.

40. **(B)** The free transform tool allows you to rotate, scale and skew an object.

41. **(A)** ctrl + shift + : is used to enter current time.

42. **(B)** Department of Defense of USA set up a network of computers in 1969.

43. **(B)** WAN means wide area network.

44. **(C)** Both email addresses and website have no spaces and are generally written in lowercase.

45. **(A)** A horizontal series of cells in MS-Excel are called rows.

ENGLISH

46. **(D)** strenuous

47. **(A)** Fry

48. **(C)** Pairing words : 'Trial and Error

49. **(B)** Hundreds of village children ought to walk to school, as they can't afford to buy bicycles.

50. **(D)** Unhappy with parents' constant fight, minor left home.

The End