

ANSWER SET - 48

01. (4) 02. (2) 03. (2) 04. (2) 05. (2)
 06. (4) 07. (4) 08. (1) 09. (1) 10. (3)
 11. (1) 12. (2) 13. (2) 14. (4) 15. (4)
 16. (2) 17. (4) 18. (1) 19. (1) 20. (1)
 21. (3) 22. (4) 23. (1) 24. (4) 25. (4)
 26. (2) 27. (1) 28. (2) 29. (2) 30. (3)
 31. (1) 32. (2) 33. (2) 34. (4) 35. (2)
 36. (2) 37. (1) 38. (4) 39. (4) 40. (1)
 41. (3) 42. (1) 43. (4) 44. (4) 45. (2)
 46. (2) 47. (1) 48. (1) 49. (3) 50. (1)
 51. (2) 52. (2) 53. (4) 54. (1) 55. (4)
 56. (4) 57. (4) 58. (2) 59. (4) 60. (2)
 61. (2) 62. (1) 63. (4) 64. (2) 65. (4)
 66. (1) 67. (1) 68. (4) 69. (3) 70. (1)
 71. (2) 72. (2) 73. (1) 74. (2) 75. (1)
 76. (2) 77. (3) 78. (4) 79. (2) 80. (2)
 81. (1) 82. (4) 83. (2) 84. (4) 85. (1)
 86. (3) 87. (1) 88. (1) 89. (2) 90. (2)
 91. (2) 92. (2) 93. (4) 94. (2) 95. (4)
 96. (2) 97. (1) 98. (3) 99. (3) 100. (3)

EXPLANATION - 48

1. (4) $\begin{matrix} \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ \mathbf{R} & \mathbf{P} & \mathbf{Q} & \mathbf{S} & \mathbf{T} \end{matrix}$
2. (2) NEAR
3. (2) $\frac{\text{Sharp Shock Snooker}}{d \quad c \quad e}$
 $\frac{\text{Socks Sound}}{b \quad a}$
4. (2) $\begin{matrix} & -3 & & -3 & & -3 & & -3 \\ & \downarrow & & \downarrow & & \downarrow & & \downarrow \\ \text{M H Z} & \text{N I W} & \text{O K T} & \text{P N Q} & \text{Q R N} \\ \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ +1 & +1 & +1 & +1 & +1 \\ \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ +1 & +2 & +3 & +4 & +5 \end{matrix}$
5. (2) $\begin{matrix} & 1 & 5 & 9 & 17 & 25 & 37 & 49 \\ & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ +4 & +4 & +8 & +8 & +12 & +12 \\ \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ +0 & +4 & +0 & +4 & +0 & +4 \end{matrix}$
6. (4) $\begin{matrix} 16.2 & 54 & 180 & 600 \\ \uparrow & \uparrow & \uparrow & \uparrow \\ \times 3.33 & \times 3.33 & \times 3.33 & \times 3.33 \end{matrix}$
7. (4) AABB/AABB/AABB/AABB/AB
8. (2) **Note** :- Read 'LAKH' as 'LAKE'
 LAKE : PEOI :: MEAT : QIEX
 $\begin{matrix} \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ +4 & +4 & +4 & +4 & +4 & +4 \\ \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ +4 & +4 & +4 & +4 & +4 & +4 \end{matrix}$
9. (1) $\begin{matrix} & \text{Place value in reverse order} & & \text{Place value in reverse order} \\ & \downarrow & & \downarrow \\ \text{NET : } 13227 & \text{YAM : } 22614 \\ \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ \text{Place value in reverse order} & \text{Place value in reverse order} & \text{Place value in reverse order} & \text{Place value in reverse order} & \text{Place value in reverse order} & \text{Place value in reverse order} \\ \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ (2+3+4)^2 & (1+4+3)^2 & & & & \end{matrix}$
10. (3) $\frac{234}{(2+3+4)^2} : \frac{81}{(1+4+3)^2} :: \frac{143}{(1+4+3)^2} : \frac{64}{(1+4+3)^2}$
11. (1) Except option (1), all other options have two vowels.
12. (2) (1) $\begin{matrix} \text{M} & \text{T} & \text{O} & \text{W} & \text{F} \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 13 & 20 & 15 & 23 & 6 \end{matrix}$
 (2) $\begin{matrix} \text{C} & \text{P} & \text{R} & \text{S} & \text{V} \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 3 & 16 & 18 & 19 & 22 \end{matrix}$ In ascending order
- (3) $\begin{matrix} \text{R} & \text{C} & \text{F} & \text{G} & \text{L} \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 18 & 3 & 6 & 7 & 12 \end{matrix}$

- (4) $\begin{matrix} \text{C} & \text{X} & \text{H} & \text{I} & \text{A} \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 3 & 24 & 8 & 9 & 1 \end{matrix}$
13. (2) Except option (2), all are even number.
14. (4) $\begin{matrix} \text{T} & \text{E} & \text{M} & \text{P} & \text{O} & \text{R} & \text{A} & \text{L} \\ \swarrow & \searrow & \swarrow & \searrow & \swarrow & \searrow & \swarrow & \searrow \\ \text{O} & \text{L} & \text{D} & \text{S} & \text{M} & \text{B} & \text{S} & \text{P} \end{matrix}$
 Similarly,
 $\begin{matrix} \text{C} & \text{O} & \text{N} & \text{S} & \text{I} & \text{D} & \text{E} & \text{R} \\ \swarrow & \searrow & \swarrow & \searrow & \swarrow & \searrow & \swarrow & \searrow \\ \text{R} & \text{M} & \text{N} & \text{B} & \text{S} & \text{F} & \text{E} & \text{J} \end{matrix}$
15. (2)
 16. (2)
 17. (4)
 18. (1) $13 + 11 = 24$; $24 + 11 = 35$;
 $35 + 11 = 46$; $32 + 11 = 43$;
 $43 + 11 = 54$ and $54 + 11 = 65$
19. (1) $594 \div 3 = 198$
 $198 \div 3 = 66$
 Similarly,
 $66 \div 3 = 22$
20. (1) After changing the sign, the equation will be -
 $15 \times 12 + 900 \div 90 - 100$
 $\Rightarrow 15 \times 12 + 10 - 100$
 $\Rightarrow 180 + 10 - 100$
 $\Rightarrow 190 - 100 = 90$

21. (3)
22. (4)
- There are 19 triangles in the given figure - GIJ, HJG, HEF, CDK, KED, AJB, AFJ, IGH, CGK, EGK, EDC, AFJ, BDJ, ABF, CEG, ADF, ABD, BDF and BCI.

23. (1)
- According to diagram B is the sister-in-law of D.

24. (4)

$$\begin{aligned} XP &= \sqrt{XQ^2 + QP^2} \\ &= \sqrt{8^2 + 6^2} \\ &= \sqrt{64 + 36} \\ &= \sqrt{100} = 10\text{km} \end{aligned}$$

25. (4)
- Conclusions: I. \times
 II. \times
 III. \times
26. (2) S.P. of refrigerator and camera = ₹12000
 Loss percentage of refrigerator = 20%
 So, Loss = $12000 \times \frac{20}{(100-20)}$
 = ₹ 3000
 Profit percent on camera = 20%
 So, Profit = $12000 \times \frac{20}{(100+20)}$
 = ₹ 2000
 So, overall loss = ₹ (3000 - 2000) = ₹ 1000
27. (1) Let number $n = 5a + 2$
 $3n = 15a + 6$
 So, when $3n$ is divided by 5 then remainder will be 1.

28. (2)
- $\angle AOC = 54^\circ$
 So, angle by chord AC on B i.e.
 $\angle ABC = \frac{1}{2} \times \angle AOC^\circ$
 = 27°
 Similarly,
 $\angle BOD = 42^\circ$
 So, angle by chord BD on C i.e.
 $\angle BCD = \frac{1}{2} \times \angle BOD$
 = 21°
 So, $\angle BPD = \angle ABC + \angle BCD$
 = $27^\circ + 21^\circ = 48^\circ$

$$= \frac{3.14 \times (20)^2}{4} = 314 \text{ m}^2$$

44. (4) Ratio of radius and height of cone = 3 : 4

$$\text{Volume of cone} = 96 \pi \text{ cm}^3$$

ATQ,

$$\frac{1}{3} \times \pi \times (3r)^2 \times (4r) = 96\pi$$

$$12\pi r^3 = 96\pi$$

$$r^3 = 8 = 2^3$$

$$r = 2$$

So, radius of cone = 6 cm

Height of cone = 8 cm

$$\text{Slant height of cone} = \sqrt{6^2 + 8^2}$$

$$= 10 \text{ cm}$$

So, lateral surface area of cone

$$= \pi r l$$

$$= 6 \times 10 \pi$$

$$= 60 \pi \text{ cm}^2$$

45. (2) Required difference

$$1300 \times \frac{(100 - 36)}{100} \times \frac{(100 - 4)}{100}$$

$$- 1300 \times \frac{(100 - 40)}{100}$$

$$= 798.92 - 780 = 18.72$$

46. (2) Let units of work done by B in a day = 1

So, units of work done by A in a day = 3

ATQ,

A can finish the work 60 days less than B

then total units of work = 90 units

If both work together then time taken to finish the work

$$= \frac{90}{3+1} = 22\frac{1}{2} \text{ days}$$

47. (1) Wrong average of 18 observations = 288

ATQ,

correct average

$$= 288 - \frac{84 + 64 - 48 - 46}{18}$$

$$= 288 - \frac{54}{18}$$

$$= 288 - 3 = 285$$

48. (1) Production of state C in 2014 - 15 = 15

Production of state C in 2016 - 17 = 35

Required multiplier

$$= \frac{35}{15} = 2.33$$

$$\cong 2.5$$

49. (3)

50. (1) Cotton Produced by B

$$= (30 + 50 + 45) \times 100 \times 100000$$

$$= 1,25,00,00,000 \text{ kg}$$

76. (2) 'would like to' must replace the underlined part to improve the sentence. The sentence is in past form, so, past form of 'will' should be used.

77. (3) 'refuse' should replace the underlined part to improve the sentence. Though 'reject, refuse and deny' are almost similar in meaning, they exhibit subtleties in their meaning and usage. 'To deny' is to mainly say that something is not true, as an allegation. To refuse something is not to accept it. 'Reject' is almost similar to 'refuse', but is stronger, used mostly in case of a proposal or request. So, here in the sentence, refuse is the best suited word.

80. (2) 'Stricken' should come in place of the blank. 'Stricken' means 'deeply affected, as by grief, love etc'. The sentence talks about 'his' being afflicted by the injustice done to 'him'.

81. (1) 'Confide' should replace the blank. To confide in someone is to trust someone with one's personal matters or secrets. None of the other options fits the sentence.

82. (4) 'Submerged' should replace the blank. The word 'submerge' means to immerse something/ someone in a liquid. All the other options are with a tinge of negativity, while the sentence is one of a positive note. So (4) is the best choice.

83. (2) Replace 'will come' with 'comes'. The question is an example of usage of Adverb clause of time', which is introduced by conjunctions of time such as when, whenever, as soon as, while, before, after, until, by the time, since, ever since, as long as.

When we talk about something that is yet to take place in future, use 'present tense' in the adverb clause and 'future tense' in the main clause.

Ex. - I will start when I am ready. (NOT I will start when I will be ready)

84. (4) No error