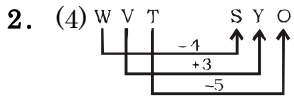


ANSWER SET - 71

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

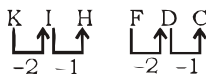
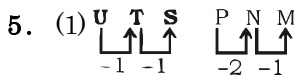
EXPLANATION - 71

1. (4) The colour of Grass is Green. Similarly, The colour of coal is **Black**.

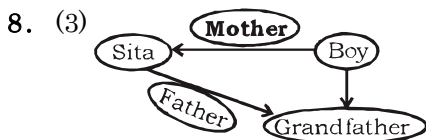
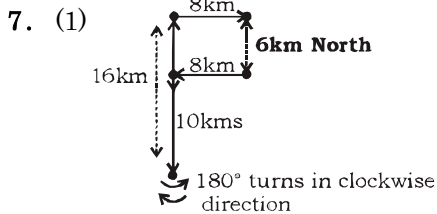


3. (1) $125 \times 5 = 625$
 Similarly, $7 \times 5 = 35$

4. (4) **Almond** is a dry fruit.



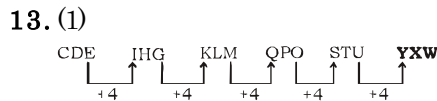
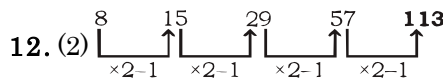
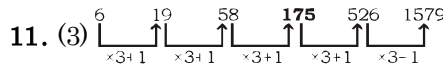
6. (4) **518**, is not multiple of 11.



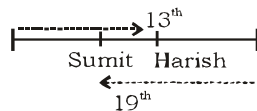
9. (1) S Y N D R O M E
 $\downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow$
 5 6 1 7 2 4 3 8

10. (4) Difference between both dates
 $= 16 + 31 + 30 + 31 + 31 + 30 + 31 + 9$
 $= 209 = 29 \text{ weeks} + 6 \text{ days}$
 Hence, Required days = Friday +

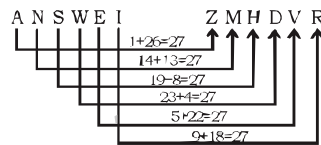
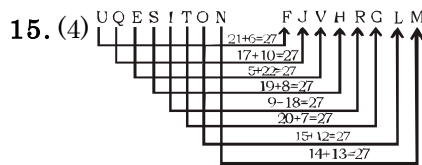
6 days
 = **Thursday**



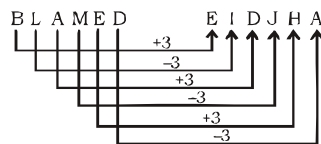
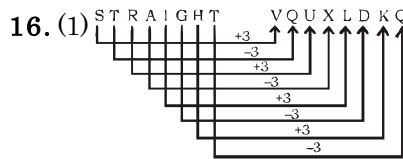
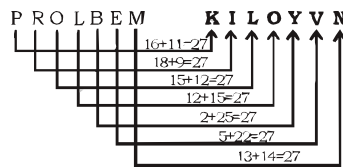
After changing their position,



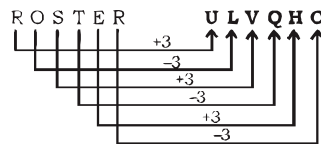
Hence, Sumit's position = **19th**



Similarly,



Similarly,



17. (2) $(1 + 4 + 1 + 3)^2 = 81$
 $(2 + 7 + 3 + 6)^2 = 324$
 $(4 + 6 + 3 + 1)^2 = 196$

18. (4) $92 + 8 = 89$
 $112 + 7 = 128$
 $142 + 9 = 205$

19. (1)
 20. (1)

21. (2)

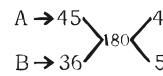
22. (4)

23. (4)

24. (2)

25. (2)

52. (2) ATQ,



Hence, Required days = $\frac{180}{4+5}$

= **20 days**

53. (2) ATQ,

Length of other diagonal

$$= 2\sqrt{10^2 - \left(\frac{12}{2}\right)^2} = 16\text{cm}$$

Hence, Required area

$$= \frac{1}{2} \times 16 \times 12 = 96 \text{ cm}^2$$

54. (1) ATQ,

Effective discount

$$= \frac{(50000 - 43500)}{50000} \times 100 = 13\%$$

55. (2) ATQ,

Increase in fare

$$= \frac{3610}{19} \times (21 - 19) = ₹380$$

56. (3) ATQ,

Total number = $60 \times 3 = 180$
 then, $x + 4x = 180$

$$\left[A = \frac{B+C}{4} \right]$$

$$\Rightarrow x = 36$$

Hence, first number = **36**

57. (4) ATQ,

$$\text{Remaining cotton} = \frac{550 \times 88}{100}$$

$$= 484 \text{ kgs}$$

$$\text{S.P. of one kg} = \frac{8800 \times 110}{484 \times 100} = ₹20$$

58. (1) ATQ,

Total maximum marks

$$= \frac{87+18}{35} \times 100 = 300$$

60. (2) ATQ,

Rate of interest

$$= \frac{2033 - 1900}{1900} \times 100$$

$$= 7\%$$

61. (4) ATQ,

$$\frac{1}{2} \times (x - 9) + 12 = \frac{9}{2}$$

$$\Rightarrow \frac{x}{2} - \frac{9}{2} + 12 = \frac{9}{2}$$

$$\Rightarrow x = -6$$

62. (3) ATQ,

$$a^3 - b^3 = 1 \quad ((a-b)^2 + 42 \times 3)$$

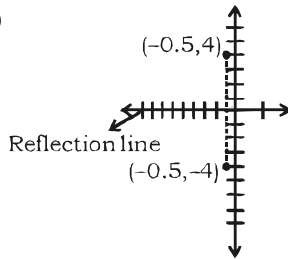
$$= 1 \times 127 = 127$$

64. (4) ATQ,

$$S_{56} = \frac{56}{2} [-15 + 225]$$

$$= 56 \times 120 = 6720$$

65. (3)



Hence, Required points are **(-0.5, -4)**

66. (1) ATQ,

Let the point cuts the segment into $m : 1$

Then,

$$T(x, 0) = \left(\frac{-4 \times 1 + -1 \times m}{m+1}, \frac{-1 \times 1 + 4 \times m}{4} \right)$$

Then, $\frac{-1 + 4m}{4} = 0$ [We cannot calculate the value of m with x]

$$\Rightarrow m = \frac{1}{4}$$

Hence, ratio = **1 : 4**

Hence, Required point = **(7,0)**

68. (3) ATQ,

The difference between the interior angles of two regular polygon is equal to the difference between the exterior angles of two regular polygon (numeric value) then,

$$\frac{360^\circ}{4x} - \frac{360^\circ}{5x} = 9^\circ$$

$$\Rightarrow 40 \times \frac{1}{20x} = 1 \Rightarrow x = 2$$

Hence, Required sides

$$= 5 \times 2 \text{ and } 4 \times 2 = \mathbf{10 \text{ and } 8}$$

69. (4) ATQ,

$$\sec^4 A (1 - \sin^4 A) - 2 \tan^2 A$$

$$= \frac{1}{\cos^4 A} (1 + \sin^2 A) - 2 \tan^2 A$$

$$= \sec^2 A + \tan^2 A - 2 \tan^2 A$$

$$= \mathbf{1}$$

70. (2) ATQ,

$$\tan (180^\circ - 90^\circ - 30^\circ) = \tan 60^\circ$$

$$= \sqrt{3}$$

71. (4) ATQ,

$$\tan \theta = \frac{12}{35} = \frac{P}{B}$$

$$H = \sqrt{P^2 + B^2} = \sqrt{12^2 + 35^2} = 37$$

$$\text{Hence, } \sin \theta = \frac{P}{H} = \frac{12}{37}$$

72. (4) **Electricity**

73. (4) Raw material + transport :

Salaries

$$30 + 15 : 15$$

$$\mathbf{3 : 1}$$

74. (1) Required percent

$$= \frac{(10-5)}{5} \times 100 = \mathbf{100\%}$$

75. (3) Total

= Total expenditure

$$= \frac{500000000 \times (15 + 25)}{100}$$

$$= \mathbf{₹20 \text{ crore}}$$

84. (3) 'Get carried away' means 'to become overly excited or involved'.

85. (4) 'Simple past tense' will be used since sentence is in past tense hence 'rose another foot' is correct.

87. (2) Ripen - is verb

90. (3) Change 'came' to 'had come'. The action of 'coming' took place before the action of 'asking' so the 1st action will be in past perfect tense.

91. (3) (i) When we talk about a particular 'person or thing', Article 'The' is used. So article 'The' will come before 'temple' **Exception:-** If 'Temples', 'Schools', 'Colleges', 'Jails' are denoted in reference to their primary purpose, article is not used.