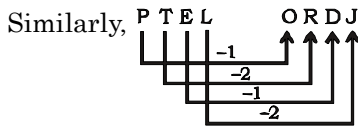
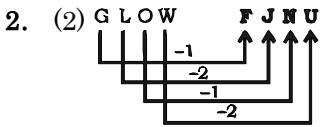


ANSWER SET - 65

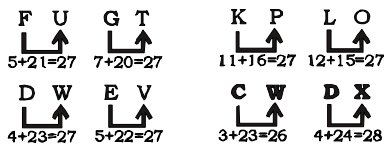
1. (2) 2. (2) 3. (2) 4. (2) 5. (4)
6. (4) 7. (2) 8. (2) 9. (3) 10. (3)
11. (2) 12. (1) 13. (3) 14. (1) 15. (1)
16. (2) 17. (2) 18. (1) 19. (4) 20. (3)
21. (1) 22. (1) 23. (1) 24. (1) 25. (2)
26. (4) 27. (1) 28. (1) 29. (3) 30. (3)
31. (2) 32. (1) 33. (1) 34. (1) 35. (4)
36. (2) 37. (2) 38. (4) 39. (4) 40. (4)
41. (4) 42. (1) 43. (1) 44. (2) 45. (1)
46. (1) 47. (2) 48. (2) 49. (3) 50. (1)
51. (4) 52. (2) 53. (3) 54. (4) 55. (1)
56. (3) 57. (4) 58. (4) 59. (4) 60. (3)
61. (2) 62. (2) 63. (4) 64. (1) 65. (2)
66. (2) 67. (3) 68. (1) 69. (1) 70. (1)
71. (1) 72. (2) 73. (2) 74. (3) 75. (2)
76. (3) 77. (4) 78. (4) 79. (3) 80. (1)
81. (2) 82. (2) 83. (2) 84. (3) 85. (4)
86. (4) 87. (3) 88. (1) 89. (2) 90. (3)
91. (4) 92. (2) 93. (1) 94. (2) 95. (1)
96. (1) 97. (4) 98. (3) 99. (3) 100. (2)

EXPLANATION - 65

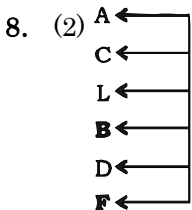
1. (2) Ship travels on Water.
Similarly, Car travels on Road.



3. (2) $5^3 - 1 = 624$
Similarly, $6^3 - 1 = 1295$
4. (2) Except Careless : Casual, in all others terms, 1st term is opposite of the second term.
5. (4)



6. (4) $11^3 - 1 = 1330$
 $17^3 - 1 = 4912$
 $21^3 - 1 = 9260$
 $12^3 + 1 = 1729$
7. (2) Pastel → Pebble → Postal
→ Pragmatic → Protect.

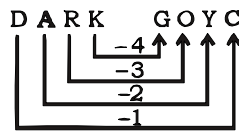
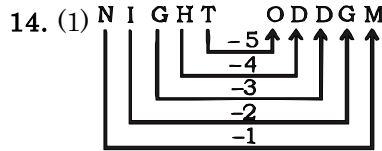
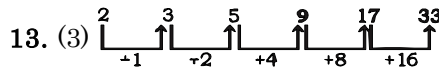
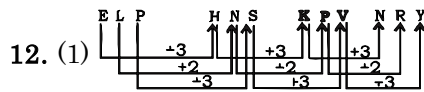
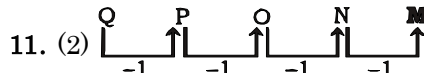


9. (3) ATQ,
 $y + 9 = x$
 $\Rightarrow x + 3 + y - 4 = 76$
 $\Rightarrow y + 9 + 3 + y - 4 = 76$
 $\Rightarrow y = 34$

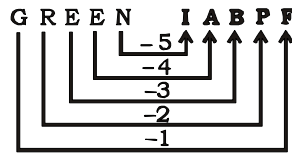
Hence, C's age = $\frac{34}{2} + 10$

= 27 years

10. (3) BANE



Similarly,



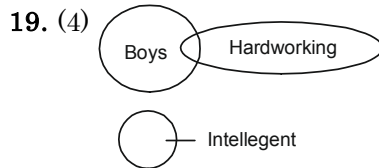
15. (1) $4 \times 3 - 6 \div 2 + 7 = 8$
Changing the sign, as per given details,
Option A $4 \times 3 + 6 \div 2 - 7 = 8$
Option B $4 - 3 + 6 \div 2 - 7 \neq 8$
Option C $4 + 3 - 6 \div 2 \times 7 \neq 8$
Option D $4 \div 3 - 6 \times 2 + 7 \neq 8$
16. (2) Take the symbol as $\# = \div$ and $\% = \times$

then, $\frac{3}{4} \times 3 = 6$

$9 \times \frac{4}{3} = 12$

$12 \times \frac{6}{24} = 3$

17. (2) $9 \times 2 \times 8 - 1 = 143$
 $7 \times 5 \times 8 - 1 = 279$
 $9 \times 7 \times 8 - 1 = 503$
18. (1)



I True
II False

20. (3)
21. (1)
22. (1)
23. (1)

24. (1)

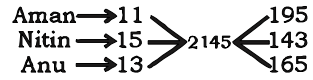
25. (2)

51. (4) ATQ,
Required Number

$$= \frac{950}{(\text{LCM of } 9,6)} - \frac{600}{(\text{LCM of } 9,6)}$$

(Complete Number is required)
 $= 17 - 11 = 6$

52. (2) ATQ,



then, Aun's share

$$= \frac{8048}{195 + 143 + 165} \times 165 = ₹ 2640$$

53. (3) ATQ,

Surface area of sphere

$$= 4 \times \frac{22}{7} \times \frac{49}{4} \times \frac{49}{4} = 1886.5 \text{ cm}^2$$

54. (4) ATQ,

Marked Price

$$= \frac{44550 \times 100 \times 100}{(100 - 45)(100 - 10)}$$

$$= ₹ 90000$$

55. (1) ATQ,

Required difference =

$$= \frac{51300 \times (7 - 6)}{(6 + 7 + 6)} = ₹ 2700$$

56. (3) ATQ,

Required average

$$= \frac{24 \times 4 - 6 \times 4}{3} = 24 \text{ years}$$

57. (4) ATQ,

$$\frac{100}{4x} - \frac{100}{5x} = 5$$

$$\Rightarrow 100 \times \frac{1}{20x} = 5$$

$$\Rightarrow x = 1$$

Hence, new price = $1 \times 5 = ₹ 5$

58. (4) ATQ,

Initial number

$$= 2646 \times \frac{100}{(100 - 60)} \times \frac{100}{(100 - 16)}$$

$$= 7875$$

59. (4) ATQ,

$$\frac{140}{14x} = \frac{140}{10x} + \frac{25}{60}$$

$$\Rightarrow \frac{4}{x} = \frac{25}{60}$$

$$\Rightarrow \frac{240}{25} = x$$

Hence, the speed of train

$$= \frac{240}{25} \times 14 = 134.4 \text{ kmph}$$

60. (3) ATQ,

$$\frac{P \times r \times 20}{100} = 4P$$

$$\Rightarrow r = 20\%$$

then,

$$\frac{P \times 20 \times t}{100} = 8P$$

$$\Rightarrow t = 40 \text{ years}$$

61. (2) ATQ,

$$x + \frac{1}{x} = 2$$

$$\Rightarrow x^2 + 1 - 2x = 0$$

$$\Rightarrow (x - 1)(x - 1) = 0$$

$$\Rightarrow x = 1$$

$$\text{then, } x^{68} + \frac{1}{x^{1331}} = 1^{68} + \frac{1}{1^{1331}} = 2$$

62. (2) $\cos 15^\circ + \tan 45^\circ = \cos (45^\circ - 30^\circ) + \tan 45^\circ$
 $= \cos 45^\circ \cos 30^\circ + \sin 45^\circ \sin 30^\circ + \tan 45^\circ$

$$= \frac{1}{\sqrt{2}} \times \frac{\sqrt{3}}{2} + \frac{1}{\sqrt{2}} \times \frac{1}{2} + 1$$

$$= \frac{\sqrt{3} + 1 + 2\sqrt{2}}{2\sqrt{2}}$$

63. (4) ATQ,

$$\frac{\cos 2A}{\tan 2A} = \frac{\cos^2 2A}{\sin 2A} = \frac{1 - \sin^2 2A}{\sin 2A}$$

$$= \text{cosec } 2A - \sin 2A$$

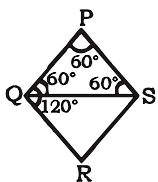
64. (1) ATQ,

$$\angle CEB = 180^\circ - \frac{45^\circ}{2} - \left[75^\circ + \frac{180^\circ - 75^\circ}{2} \right]$$

$$= 30^\circ$$

65. (2)

66. (2) ATQ,



Hence, PQS is an equilateral triangle

then, QS = 18 cm

67. (3) ATQ,

$$x + \frac{5x}{6} + \frac{5x}{6} = 48$$

$$\Rightarrow x = 18$$

Hence, the area of triangle

$$= \sqrt{24(24-18)(24-15)(24-15)}$$

$$= \sqrt{24 \times 6 \times 9 \times 9} = 108 \text{ cm}^2$$

68. (1) ATQ,

$$a + b + c = 17$$

$$\Rightarrow (a - 5) + (b - 9) + (c - 3) = 0$$

————(i)

$$\text{then, } (a - 5)^3 + (b - 9)^3 + (c - 3)^3 - 3(a - 5)$$

$$(b - 9)(c - 3) = 0$$

[From equation (i)]

69. (1) ATQ,

$$\text{unit's place of } 3^{555} = 3^{552} \times 27$$

$$= 1 \times 27 = 7$$

$$\text{unit's place of } 8^{555} = 8^{555} \times 512$$

$$= 6 \times 2 = 2$$

$$\text{unit's place of } 8^{333} = 8^{332} \times 8 = 8$$

$$\text{unit's place of } 5^{333} = 5$$

$$\text{then, unit's place of } 3^{555} \times 8^{555} + 8^{333} \times 5^{555}$$

$$= 7 \times 2 + 8 \times 5 = 4$$

70. (1) ATQ,

New increment

$$= \frac{100 - 90}{90} \times 100 = 11\frac{1}{9}\%$$

71. (1) ATQ,

Required run rate

$$= \frac{262 - 39 \times 4.4}{11} = 8.22$$

72. (2) ATQ,

$$\text{Number of shoes} = \frac{20 \times 1500}{100}$$

$$= 300$$

73. (2) ATQ,

Required difference

$$= \frac{(25 - 18) \times 1500}{100} = 105$$

74. (3)

75. (2) ATQ,

Required increment

$$= \frac{(19 - 18)}{18} \times 100 = 0.056\%$$

79. (3) Correct phrase is 'in spite of'.

86. (4) Here noun is 'increase' and it is singular hence it will agree with 'has'.

87. (3) Correct phrase is 'out of sorts' which means 'to feel slightly unwell'

97. (4) 'Struck' means 'a temporary stoppage of something'.