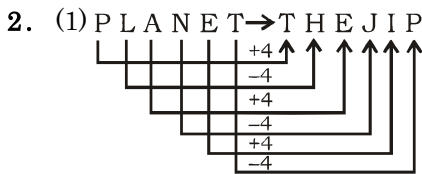


ANSWER SET - 34

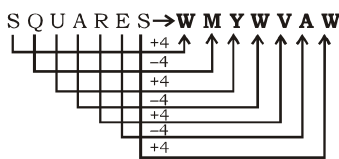
01. (3) 02. (1) 03. (2) 04. (4) 05. (1)
 06. (1) 07. (4) 08. (3) 09. (4) 10. (4)
 11. (3) 12. (4) 13. (2) 14. (3) 15. (4)
 16. (2) 17. (1) 18. (2) 19. (2) 20. (3)
 21. (3) 22. (3) 23. (4) 24. (1) 25. (1)
 26. (2) 27. (4) 28. (4) 29. (2) 30. (2)
 31. (4) 32. (3) 33. (3) 34. (1) 35. (2)
 36. (4) 37. (1)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

EXPLANATION - 34

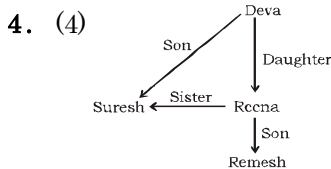
1. (3) TOURNAMENTS



Similarly,



3. (2)



5. (1) Except option (3), all are Kharif crops.

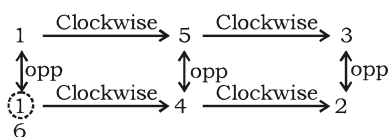
6. (4) (1) $729 \downarrow 9^3 + 0$

(2) $344 \downarrow 7^3 + 1$

(3) $126 \downarrow 5^3 + 1$

(4) $217 \downarrow 6^3 + 1$

7. (4) According to dice I and III



8. (3) L M L / L M L / L M L / L M L

9. (4)

10. (4) $30 \div 5 \times 4 + 3 - 2 = 25$

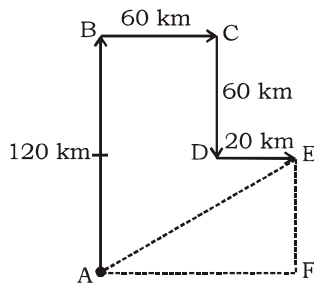
$6 \times 4 + 3 - 2 = 25$

$24 + 3 - 2 = 25$

$27 - 2 = 25$

$25 = 25$

11. (3) Required distance



$$AE = \sqrt{80^2 + 60^2}$$

$$= \sqrt{6400 + 3600}$$

$$= \sqrt{10000}$$

$$= 100 \text{ km}$$

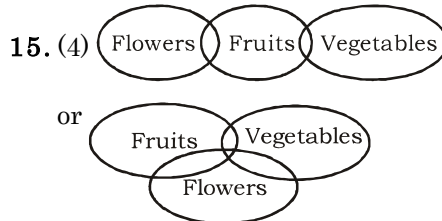
12. (4) $3 \times 5 - 6 = 9$
 $9 \times 2 - 1 = 17$

Similarly,
 $7 \times 4 - 8 = 20$

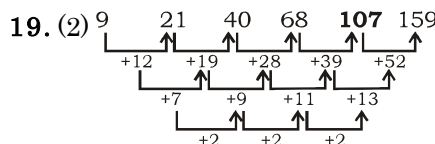
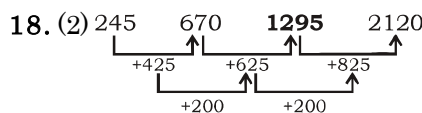
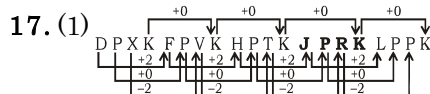
13. (2) $(2 + 6) \times (6 - 2 \times 2) = 16$
 $(1 + 4) \times (4 - 1 \times 2) = 10$
 $(4 + 9) \times (9 - 4 \times 2) = 13$

Similarly,
 $(3 + 8) \times (8 - 3 \times 2) = 22$

14. (3)



Conclusions - I - ×
 II - ×

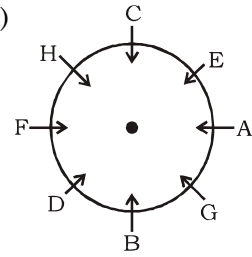


20. (3)

21. (3)

22. (3) $6 : 432 :: 10 : 2000$

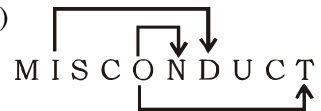
23. (4)



24. (1) 3 days beginning of the month will be = 4 (Saturday)



25. (1)



26. (2) $4^{2P} = \frac{1}{16}$

$$4^{2P} = 4^{-2}$$

$$\text{So, } 2P = -2$$

$$P = -1$$

28. (4) Let work done by a boy = 2
 So, work done by a man = $2 + 2 \times$

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

Let total work = $8 \times 20 \times 3 = 480$ units

Work done by (4 men + 9 boys)
 $= 4 \times 3 + 9 \times 2 = 30$ units

Total time required = $\frac{480}{30} = 16$ days

29. (2) Interior angle - Exterior Angle = 120°

Interior angle + Exterior Angle = 180°

$$\text{So, Exterior angle} = \frac{180^\circ - 120^\circ}{2}$$

$$= 30^\circ$$

The number of sides of polygon

$$= \frac{360^\circ}{30^\circ} = 12$$

30. (2) Let side of cubical box = x unit

So, volume of box = x^3 cubic units
 Height of pyramid = $2x$ units

So, volume of pyramid

$$= \frac{1}{3} \times x \times x \times 2x$$

$$= \frac{2}{3} x^3 \text{ cubic units}$$

$$\text{Required ratio} = \frac{\left(x^3 + \frac{2}{3}x^3\right)}{x^3} = \frac{5}{3}$$

31. (4)

$$\frac{\text{Curved surface area of cone}}{\text{Circular area of cone}} = \frac{\sqrt{5}}{1}$$

$$\frac{\pi r l}{\pi r^2} = \frac{\sqrt{5}}{1}$$

$$\frac{l}{r} = \sqrt{5}$$

$$l = \sqrt{5}r$$

$$l = \sqrt{r^2 + h^2} = \sqrt{5}r$$

$$r^2 + h^2 = 5r^2$$

$$\frac{h^2}{r^2} = 4$$

$$\frac{h}{r} = \frac{2}{1}$$

33. (3) Marked price = ₹

$$\left(600 \times \frac{120}{100} \times \frac{100}{90}\right) = ₹800$$

34. (1) Required ratio = (12250 - 8125) : 8125

$$= 4125 : 8125$$

$$= 33 : 65$$

35. (2) A.T.Q.

Sum of age of father's and son 4 years age = 72

The father's age (4 years ago)

$$= \frac{2}{3} \times 72$$

$$= 48$$

Present age of father = 48 + 4

$$= 52 \text{ years}$$

37. (1) Speed Time 1236

It he takes 7 hours then total journey is = 36 × 2 = 72 km

38. (2) A.T.Q.

$$\text{Relative speed} = \frac{100}{18} \times 5 \text{ m/s}$$

$$= \frac{500}{18} \times \frac{18}{5} = \text{km/hr}$$

$$= 100 \text{ km/hr}$$

So, speed of train = 100 - 6 = 94 km/hr

40. (1) $x = \sqrt{5} + 2$

$$\frac{1}{x} = \frac{1}{\sqrt{5} + 2} = \sqrt{5} - 2$$

$$x + \frac{1}{x} = 2\sqrt{5} \text{ and } x - \frac{1}{x} = 4$$

$$\frac{x^4 - 1}{x^2} = \left(x^2 - \frac{1}{x^2}\right) = \left(x + \frac{1}{x}\right) \left(x - \frac{1}{x}\right)$$

$$= 8\sqrt{5}$$

$$41. (3) \frac{1}{(2^2 - 1)} + \frac{1}{(4^2 - 1)} + \frac{1}{(6^2 - 1)} +$$

$$\dots + \frac{1}{20^2 - 1}$$

$$= \frac{1}{1 \times 3} + \frac{1}{3 \times 5} + \frac{1}{5 \times 7} + \dots +$$

$$\frac{1}{19 \times 21}$$

$$= 1$$

$$42. (3) (\sqrt{6} + \sqrt{10} - \sqrt{21} - \sqrt{35})$$

$$(\sqrt{6} - \sqrt{10} + \sqrt{21} - \sqrt{35})$$

$$= [(\sqrt{6} - \sqrt{35}) + (\sqrt{10} - \sqrt{21})]$$

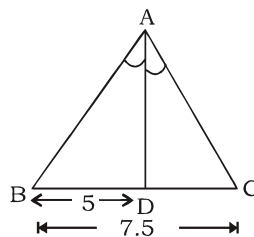
$$[(\sqrt{6} - \sqrt{35}) - (\sqrt{10} - \sqrt{21})]$$

$$= (\sqrt{6} - \sqrt{35})^2 - (\sqrt{10} - \sqrt{21})^2$$

$$= \sqrt{6} + 35 - 2\sqrt{210} - (10 + 21 - \sqrt{210})$$

$$= 10$$

43. (2)



$$AB : AC = (5) : (7.5 - 5)$$

$$= 2 : 1$$

$$44. (4) \sin \theta \cos \theta = \frac{1}{2}$$

$$-2 \sin \theta \cos \theta = -1$$

$$\sin^2 \theta + \cos^2 \theta - 2 \sin \theta \cos \theta = -1$$

$$= -1$$

$$(\sin \theta - \cos \theta)^2 = 0$$

$$\sin \theta - \cos \theta = 0$$

$$45. (3) 2y \cos \theta - x \sin \theta = 0$$

$$\tan \theta = \frac{2y}{x} \dots (i)$$

$$2x \sec \theta - y \operatorname{cosec} \theta = 3$$

$$2x \tan \theta - y = 3 \sin \theta$$

$$2x \cdot \frac{2y}{x} - y = \frac{3}{\sqrt{1 + \left(\frac{x}{2y}\right)^2}}$$

$$y - y = \frac{3}{\frac{1}{2y} \sqrt{x^2 + 4y^2}}$$

$$\sqrt{x^2 + 4y^2} = \frac{3 \times 2y}{3y} = 2$$

$$x^2 + 4y^2 = 4$$

46. (3) $\theta + \phi = 90^\circ$

$$\sec^2 \theta - \cos^2 \phi = \operatorname{cosec}^2 \phi - \cot^2 \phi = 1$$

47. (4) Production of pulses in oldish = 85 tonnes

76. (2) Definite article 'the' is usually used before superlative degree of something

77. (3) 'Not only.. But also' is the right form of the sentence.

78. (2) The verb 'create' shouldn't be used in the V1 form but in the -ing form here

79. (1) Reserved- kept for use only by a particular person or group
Conserved- to keep in a safe or sound state

Chosen -one who is the object of choice or of divine favor

Venerated- to regard with reverential respect or with admiring deference

80. (3) Pondered- to think about or consider (something) carefully

Reminised- to talk, think, or write about things that happened in the past
Wished- want (something) to be true or to happen

Mused- thought