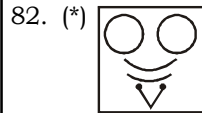


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80. (C) Aeroplane can fly and it is called a 'Bulldozer'.

81. (A)



83. (A)

84. (D)

85. (A)

86. (A) According to question,

$$SP = \frac{9}{5} \times CP$$

$$\frac{SP}{CP} = \frac{9}{5} > +4 \text{ gain}$$

$$\text{gain \%} = \frac{4}{5} \times 100 = 80\%$$

87. (A) Speed of the man = $\frac{a}{b}$ km/hr

$$\text{Required time} = \frac{1200}{1000} \times \frac{b}{a} = \frac{6b}{5a}$$

88. (A) Let the number = x
According to question

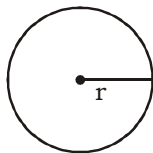
$$\Rightarrow x - \frac{2}{5}x = 75$$

$$\Rightarrow \frac{5x - 2x}{5} = 75$$

$$\Rightarrow \frac{3x}{5} = 75$$

$$x = 125$$

89. (C)



$$\frac{4}{3}\pi r^3 = 4\pi r^2$$

$$r = 3 \text{ units}$$

90. (D) Let nine consecutive numbers are $x, x + 2, x + 4, x + 6, x + 8, x + 10, x + 12, x + 14, x + 16$

$$x + x + 2 + x + 4 + x + 6 + x + 8 + x + 10$$

$$\therefore \frac{x + 12 + x + 14 + x + 16}{9} = 53$$

$$9x + 72 = 477$$

$$9x = 405$$

$$x = 45$$

\therefore least odd number is 45

91. (A) Principal = ₹ 1000

Amount = ₹ 1331

Rate = 10%

Let time = n year

By using formula,

$$\text{Amount} = \text{Principal} \left(1 + \frac{R}{100}\right)^n$$

$$1331 = 1000 \left(1 + \frac{10}{100}\right)^n$$

$$\frac{1331}{1000} = \left(\frac{11}{10}\right)^n$$

$$\left(\frac{11}{10}\right)^3 = \left(\frac{11}{10}\right)^n$$

$$n = 3 \text{ years}$$

Hence, required time = 3 years

92. (D) $2x + \frac{1}{3x} = 5$

$$\Rightarrow 6x^2 + 1 = 15x$$

$$\therefore \frac{5x}{6x^2 + 20x + 1}$$

$$= \frac{5x}{15x + 20x} = \frac{5x}{35x} = \frac{1}{7}$$

93. (D) The given triangle is a right angled triangle

\Rightarrow side of the square

$$= \frac{P \times b}{P + b} = \frac{8 \times 6}{8 + 6} = \frac{24}{7}$$

$$\Rightarrow \text{Area of square} = \left(\frac{24}{7}\right)^2$$

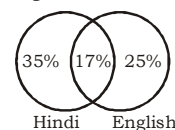
$$= \frac{576}{49} \text{ cm}^2$$

94. (C) Students failed in Hindi = 52%

Students failed in English = 42%

Students failed in both subjects = 17%

Venn diagram of failed students



Total percentage of passed students in both subjects

$$= 100 - (35 + 17 + 25)$$

$$= 100 - 77$$

$$= 23\%$$

Hence required percentage = 23%


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95. (B) $x : y$
 $2 : 3$

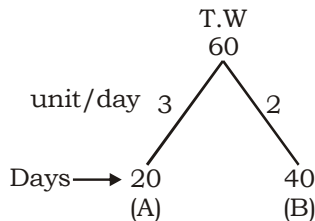
$$\therefore \frac{x}{y} = \frac{2}{3}$$

$$\frac{3x+2y}{9x+5y}$$

$$\frac{y\left(3\frac{x}{y}+2\right)}{y\left(9\frac{x}{y}+5\right)} = \left(\frac{3 \times \frac{2}{3} + 2}{9 \times \frac{2}{3} + 2}\right)$$

$$\frac{2+2}{6+5} = \frac{4}{11}$$

96. (D)



(A + B) can do the whole work together in
 $= \frac{60}{3+2} = 12$ days

97. (B) Successive discount of 10% and 20%

$$= 10 + 20 - \frac{10 \times 20}{100} = 28\%$$

Successive discount of 28% and 30%

$$= 28 + 30 - \frac{28 \times 30}{100} = 49.6\%$$

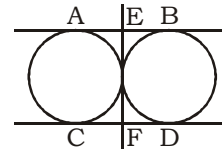
98. (A) $(\cos 0^\circ + \sin 45^\circ + \sin 30^\circ) (\sin 90^\circ - \cos 45^\circ + \cos 60^\circ)$

$$\Rightarrow \left(1 + \frac{1}{\sqrt{2}} + \frac{1}{2}\right) \left(1 - \frac{1}{\sqrt{2}} + \frac{1}{2}\right)$$

$$\left(\frac{3}{2} + \frac{1}{\sqrt{2}}\right) \left(\frac{3}{2} - \frac{1}{\sqrt{2}}\right)$$

$$\frac{9}{4} - \frac{1}{2} \Rightarrow \frac{9-2}{4} = \frac{7}{4}$$

99. (C) Maximum number of tangent are 3



100. (A) Let the length of train be l m.
 According to the question

$$\text{Time} = \frac{\text{Distance}}{\text{Speed}}$$

$$\Rightarrow 100 = \frac{500 + l}{\text{speed of train}}$$

$$\Rightarrow \text{speed} = \frac{500 + l}{100} \quad \dots(i)$$

Again,

$$60 = \frac{250 + l}{\text{speed of train}}$$

$$\text{speed} = \frac{250 + l}{60} \quad \dots(ii)$$

Equating (i) and (ii)

$$\Rightarrow \frac{500 + l}{100} = \frac{250 + l}{60}$$

$$\Rightarrow 1500 + 3l = 1250 + 5l$$

$$\Rightarrow 2l = 250$$

$$\Rightarrow \text{length of train} = 125 \text{ m}$$



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DELHI POLICE MOCK TEST – 02 (ANSWER KEY)

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

Note :- Question number (5) has been repeated twice in the question paper and their answer are (B) and (C) Respectively

Note:- If you face any problem regarding result or marks scored, please contact 9313111777

Note:- If your opinion differs regarding any answer, please message the mock test and question number to 8860330003