

**HARYANA SSC MOCK TEST - 43 (SOLUTION)**

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

**Explanation:**

41. (D) Except option (D), vowels are used in all remaining options.

42. (B) 1, 3, 6, 10, 15, 21  
 $\begin{matrix} \underbrace{1, 3, 6, 10, 15, 21} \\ +2 \quad +3 \quad +4 \quad +5 \quad +6 \end{matrix}$

43. (D)

44. (B)  $\begin{matrix} G & I & G & A & N & T & I & C \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ G & I & G & T & A & N & C & I \end{matrix}$

Similarly,

$\begin{matrix} M & I & R & A & C & L & E & S \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ M & I & R & L & A & C & S & E \end{matrix}$

45. (A)  $\frac{\text{Letters}}{4} \frac{\text{Word}}{1} \frac{\text{Phrase}}{5} \frac{\text{Sentence}}{3} \frac{\text{Paragraph}}{2}$

46. (B) Short cut: Number of shakehands by 'n' people

$$= \frac{n(n-1)}{2} = \frac{10(10-1)}{2} = \frac{10 \times 9}{2} = 45$$

47. (D)

48. (C)  $20 \times 8 \div 8 - 4 + 2$

(After changing the signs)

$$\Rightarrow 20 + 8 - 8 \div 4 \times 2$$

$$\Rightarrow 20 + 8 - \frac{8}{4} \times 2$$

$$\Rightarrow 20 + 8 - 4$$

$$\Rightarrow 24$$

49. (C) Father of my father = Grandfather  
 Grandfather's granddaughter = Me or my sister.

My or my sister's husband = My husband or my brother-in-law.

50. (D) Uncle's father = Grandfather  
 Grandfather's daughter = My mother  
 My mother's son = My brother

51. (C) Let the principal be 'p' and 'r' be the rate of interest.

Then,

**CASE I:-**

$$13380 = P \left[ 1 + \frac{r}{100} \right]^3 \dots (i)$$

**CASE II:-**

$$20070 = P \left[ 1 + \frac{r}{100} \right]^6 \quad \dots (ii)$$

On dividing (ii) by (i), we have

$$\frac{20070}{13380} = \left( 1 + \frac{r}{100} \right)^{6-3} = \left( 1 + \frac{r}{100} \right)^3$$

$$\Rightarrow \left( 1 + \frac{r}{100} \right)^3 = \frac{3}{2}$$

From (i)

$$13380 = P \times \frac{3}{2}$$

$$\Rightarrow P = \frac{13380 \times 2}{3} = ₹ 8,920$$

52. (D) P → Principal

x → Diff. between CI & SI for 2 yrs

r → rate of interest p.a.

By question,

$$P = 65 \left[ \frac{100}{10} \right]^2 = 65 \times 100 = ₹ 6,500$$

53. (C) Work done by X, Y and Z in 3 days

$$= \frac{3}{15} + \frac{1}{10} + \frac{1}{30} = \frac{6+3+1}{30} = \frac{10}{30} = \frac{1}{3}$$

∴  $\frac{1}{3}$  work is done in 3 days.

∴ 1 work is done in  $\frac{3}{\frac{1}{3}} = 9$  days.

54. (A) Relative speed = (36 + 42) km/h = 78 km/h

Let the distance between Aligarh & Delhi be x km.

$$\text{Time taken} = \frac{x}{78} \text{ hrs.}$$

Again,

$$(42 - 36) \times \frac{x}{78} = 48$$

$$\Rightarrow x = \frac{78 \times 48}{6} = 624 \text{ km}$$

$$55. (B) \text{ Speed of the train} = 90 \text{ km/hr} = 90 \times \frac{5}{18} = 25 \text{ m/s}$$

Time taken by the train to cross the

$$\text{standing man} = \frac{250}{25} = 10 \text{ seconds}$$

$$\begin{aligned} 56. (A) \quad & x^3 + 3x^2 - x - 3 \\ & = x^2(x+3) - 1(x+3) \\ & = (x^2-1)(x+3) \\ & = (x+1)(x-1)(x+3) \\ & = x^3 + 4x^2 + x - 6 \\ & = (x-1)(x^2+5x+6) \\ & = (x-1)(x+2)(x+3) \\ \text{HCF} & = (x-1)(x+3) \\ & = x^2 + 2x - 3 \end{aligned}$$

57. (B) Let the two numbers be 2x and x.

Then,

$$2x \times x = 1800$$

$$x^2 = 900$$

$$x = 30$$

Greater number = 2 × 30 = 60.

58. (B) Let 'N' be the number and x be the divisor.

Then,

$$\frac{N}{x}; R = 23$$

Again,

$$\frac{2N}{x}; R = 11$$

Here, when  $\frac{2N}{x}$ , remainder R should be

$$2 \times 23 = 46, \text{ but as the } R = 11.$$

$$\Rightarrow \text{divisor} = 2 \times 23 - 11 = 46 - 11 = 35$$

59. (A) Let the number be 'N'.

$$\frac{N}{13}; R = 1 \Rightarrow N = 13x + 1$$

$$\frac{x}{5}; R = 3 \Rightarrow x = 5n + 3$$

$$\therefore N = 13(5n + 3) + 1 = 65n + 39 + 1 = 65n + 40$$

$$\frac{N}{65}; R = 40$$

60. (C) ∴ Option (C) is correct because 2.625, 2.75, 2.875 lie between 2.5 & 3.

**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**