

HARYANA SSC MOCK TEST - 56 (SOLUTION)

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

Explanation:

41. (C) Except option (C) all are metals.

42. (C)

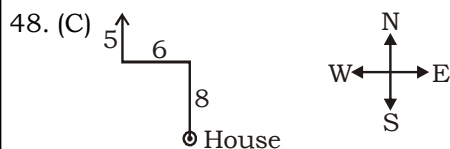
43. (D) $63 : 21 :: 27 : 9$
 $\uparrow \times 3 \quad \uparrow \times 3$

44. (A) ① 2 ⑤ = Go to school
 ① 4 6 = Study in school
 ① 3 ⑤ = Run to school

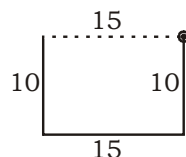
45. (C) $8 + 10 + 17 = 35$
 $11 + 14 + 10 = 35$
 $16 + 11 + 8 = 35$

46. (A)

47. (A)



49. (B)



50. (B)

51. (B) Speed of the train = 78 km/h

$$= 78 \times \frac{1000}{60} \text{ m/min}$$

$$= 1300 \text{ m/min}$$

Length of the tunnel

= Distance covered by the train in one

$$\text{minute} - \text{Length of the train}$$

$$= 1300 - 800$$

$$= 500 \text{ m}$$

52. (B) $\sqrt{-\sqrt{3} + \sqrt{3+8\sqrt{7+4\sqrt{3}}}}$

$$= \sqrt{-\sqrt{3} + \sqrt{3+8\sqrt{(2+\sqrt{3})^2}}}$$


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$$= \sqrt{-\sqrt{3} + \sqrt{3+8(2+\sqrt{3})}}$$

$$= \sqrt{-\sqrt{3} + \sqrt{3+16+8\sqrt{3}}}$$

$$= \sqrt{-\sqrt{3} + \sqrt{(4+\sqrt{3})^2}}$$

$$= \sqrt{-\sqrt{3} + 4 + \sqrt{3}}$$

$$= \sqrt{4} = 2$$

53. (C) % of candidates passed in both subjects = 90%

% of candidates passed in either of the two subjects = $(70 + 80 - 90)\% = 60\%$
 $\Rightarrow 60\%$ of total candidates = 144

$$\Rightarrow \text{total candidates} = \frac{144 \times 100}{60} = 240$$

54. (D) Let the total voters be 100.

Voters did not cast their votes = 8

Votes polled = 92

Votes obtained by winner = 48

Votes obtained by loser = $92 - 48 = 44$

When difference is 4, total votes is 100.

When difference is 1, total votes is $\frac{100}{4}$.

When difference is 1100, total votes is

$$\frac{100 \times 1100}{4} = 27500$$

55. (C) Product of two numbers = 7×140

$$= 7 \times 5 \times 7 \times 4$$

$$= 35 \times 28$$

\therefore Both the numbers lies between 20 & 45.

\therefore their sum = $35 + 28 = 63$

56. (A) Let the present age of the son be x yrs.

the present age of father = $3x + 3$ yrs.

3 yrs later:

Son's age = $x + 3$ yrs.

Father's age = $3x + 3 + 3$

= $3x + 6$ yrs

ATQ,

$$3x + 6 = 2(x + 3) + 10$$

$$3x - 2x = 10$$

$$\Rightarrow x = 10$$

Father's present age = $34 + 3 = 33$ yrs.

57. (C) $R = 4\%$ p.a.

$n = 2$ yrs.

CI - SI = 1

$$P \left(\frac{r}{100} \right)^2 = 1$$

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

$$= 625$$

58. (A) SI for 2 yrs. = $568 - 520 = ₹ 48$

$$\text{SI for 5 yrs.} = \frac{48}{2} \times 5 = ₹ 120$$

$$\text{Principal} = ₹ 520 - ₹ 120 = ₹ 400$$

59. (B) Part of the work completed by A & B in 20 days

$$= \frac{20}{30} = \frac{2}{3}$$

$$\text{Remaining work} = \frac{1}{3} \text{ part}$$

$\frac{1}{3}$ work is completed by A in 20 days.

\therefore Whole work is completed by A in 60 days.

60. (A) Quantity of Cu in 17500 gm

$$= \frac{5}{7} \times 17500$$

$$= 12500 \text{ gm}$$

Quantity of Zn = $17500 - 12500$

$$= 5000 \text{ gm}$$

Now 1250 gm of Zn is mixed in the alloy.

$$\therefore \text{Required Ratio} = \frac{12500}{5000 + 1250}$$

$$= \frac{12500}{6250} = \frac{2}{1}$$