

HARYANA SSC MOCK TEST - 54 (SOLUTION)

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

Explanation:

41. (D) Except Kidney, all others are external organs.

42. (A) $9 \xrightarrow{+4} 27 \xrightarrow{+6} 31 \xrightarrow{+8} 155 \xrightarrow{+6} 161 \xrightarrow{+8} 1127 \xrightarrow{+6} 1135$
 $\downarrow \times 3 \quad \downarrow \times 5 \quad \downarrow \times 7$

43. (B) Sorrow is antonym of Joy. Similarly Pleasure is antonym of Pain.

44. (A) Here, DE = BE then

$$AE = BE - AB \\ = 4 - 2 = 2$$

So, Ramu is 2 km away from the starting point.

45. (D) $836 + 112 = 948 \Rightarrow 948 \div 3 = 316$

Similarly,

$$213 + 420 = 633 \Rightarrow 633 \div 3 = 211$$

46. (B)

47. (B) In each subsequent term the last letter becomes the first letter.

48. (C) D E L H I and
 $\downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow$
 7 3 5 4 1

C A L C U T T A
 $\downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow$
 8 2 5 8 9 6 6 2

Therefore,

C A L I C U T
 $\downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow \quad \downarrow$
 8 2 5 1 8 9 6

49. (B) LOTUS

50. (A) $\xrightarrow{\hspace{10em}} 39 \xleftarrow{\hspace{10em}}$

$\xrightarrow{\hspace{2em}} \boxed{\text{Suresh}} \xrightarrow{\hspace{2em} 6 \hspace{2em}} \boxed{\text{Ashok}} \xleftarrow{\hspace{2em}}$

Suresh's rank from the beginning

$$39 - (17 + 7 - 1)$$

$$= 39 - (24 - 1)$$

$$= 39 - 23$$

$$= 16\text{th}$$

$$51. (C) R = \frac{S.I. \times 100}{P \times T}$$

Time = 4 yrs. 3 month

$$\therefore \frac{416 \times 100}{4000 \times \frac{51}{12}}$$

$$4 \text{ yrs. } \frac{3}{12} \text{ yrs.} = \frac{51}{12} \text{ yrs.}$$

$$= \frac{416 \times 12}{40 \times 51} = 2.45\%$$

52. (C) Let B invests ₹ x

then, A invests ₹ $3x$

Let B invests for y yrs.

then A invests for $4y$ yrs.

∴ Ratio of their investment

$$3x \times 4y : x \times y = 12xy : xy = 12 : 1$$

Also, as we know that

⇒ Ratio of investment = Ratio of profit

⇒ If the profit got by B = ₹ 8000

⇒ Then, Profit got by A = $12 \times ₹ 8000$

$$= ₹ 96,000$$

Total profit = ₹ 8000 + ₹ 96,000

$$= ₹ 1,04,000$$

53. (B) $\sqrt{x^{-1}y^2} \sqrt{y^{-1}z^2} \sqrt{z^{-1}x^2}$

$$\sqrt{x^{-1}x^2 \cdot y^2 \cdot y^{-1} \cdot z^2 z^{-1}}$$

$$\sqrt{x^{2-1} y^{2-1} z^{2-1}}$$

$$\sqrt{xyz}$$

54. (C) $2^{50}, 3^{40}, 4^{30}, 5^{20}$,

$$= (2^5)^{10}, (3^4)^{10}, (4^3)^{10}, (5^2)^{10}$$

$$= (32)^{10}, (81)^{10}, (64)^{10}, (25)^{10}$$

$$\therefore \text{Greatest number} = (81)^{10} = 3^{40}$$

55. (D) Let the speed of the 2nd train = x km/hr.

∴ Distance = speed \times time

$$\text{Then, } (140 + 110) = (x + 24) \times \frac{5}{18} \times 20$$

$$250 = (x + 24) \times \frac{5}{9} \times 10$$

$$5 = (x + 24) \times \frac{1}{9}$$

$$(x + 24) = 45$$

$$x = 45 - 24$$

$$= 21 \text{ km/hr.}$$

56. (B) Tank filled by both the taps in 1 hrs.

$$= \frac{1}{9} + \frac{1}{12} = \frac{4+3}{36} = \frac{7}{36} \text{ part}$$

In 1hr., the part of the water tank filled = $\frac{7}{36}$ part

In $4\frac{1}{2}$ hrs., the part of the water tank filled

$$= \frac{7}{36} \times \frac{9}{2} = \frac{7}{8} \text{ part}$$

57. (B) Let the two consecutive even numbers be x and $(x + 2)$.

Now,

$$(x + 2)^2 - x^2 = 92$$

$$x^2 + 4x + 4 - x^2 = 92$$

$$4x = 92 - 4$$

$$4x = 88$$

$$x = 22$$

The sum of the two consecutive even numbers

$$= 22 + 24 = 46$$

58. (B) Let the two number be $4x$ and $3x$

$$\therefore \text{L.C.M.} = 12x$$

$$12x = 180$$

$$x = \frac{180}{12} = 15$$

∴ Smaller number = $3x = 3 \times 15 = 45$

59. (C) Radha's total percentage expenditure

$$= (30 + 15 + 25 + 10)\% = 80\%$$

∴ Percentage savings = $100 - 80 = 20\%$

Now, 20% of her monthly salary = ₹ 2500

$$\therefore \text{Her monthly salary} = \frac{2500}{20} \times 100$$

$$= ₹ 12,500$$

60. (C) Required quantity

$$= \left(\frac{2}{3} \text{ of } 198\right) - \left(\frac{3}{7} \text{ of } 91\right)$$

$$= 132 - 39$$

$$= 93$$