

HARYANA SSC MOCK TEST - 53 (SOLUTION)

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

Explanation:

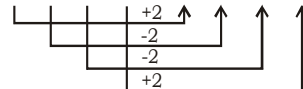
41. (D) Animals are different from Jungle, forest and Woods.

42. (C) There are two alternating series. The first series consists of squares of consecutive numbers while the second series consists of consecutive numbers.

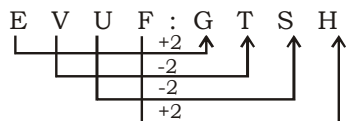
$$(1)^2 = 1, (2)^2 = 4, (3)^2 = 9, (4)^2 = 16, (5)^2 = 25$$

$$2 \rightarrow 3 \rightarrow 4 \rightarrow 5 \rightarrow 6$$

43. (A) A Z Y B : C X W D ::



Similarly,



44. (D)

45. (B) $8 \times 2 = 16$ and $8 \times 4 = 32$

$9 \times 2 = 18$ and $9 \times 4 = 36$

So, $10 \times 2 = 20$ and $10 \times 4 = 40$

46. (A) Child Illness Hospital Doctor
Medicine

$$1 \quad 3 \quad 5 \quad 2 \quad 4$$

47. (B) $200/220/200/220/200$

$$48. (C) \begin{array}{ccc} 6 & 8 & 4 \\ \downarrow & \downarrow & \downarrow \\ 1 & 3 & 2 \end{array} \text{ and } \begin{array}{ccc} 9 & 7 & 0 \\ \downarrow & \downarrow & \downarrow \\ 5 & 4 & 6 \end{array}$$

$$\begin{array}{ccc} 4 & 7 & 8 \\ \downarrow & \downarrow & \downarrow \\ 2 & 4 & 3 \end{array} + \begin{array}{ccc} 6 & 0 & 9 \\ \downarrow & \downarrow & \downarrow \\ 1 & 6 & 5 \end{array} = 408$$

49. (A) The age of Ram = 8 years.

Geeta = 6 years

\therefore The age of Kamal = 6×5
= 30 years.

50. (A) C is father of A and B.

D is aunt of A and B.

E is grandmother of A and B.

Therefore, B is either grandson or granddaughter of E. Considering the given alternatives we may select option (A) as the answer.


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51.(C) The required greatest number
 = H.C.F. of (2406 - 6) & (1814 - 4)
 = H.C.F. of 2400 & 1810
 = 10

52. (A) Given that,
 M.P. of the article = ₹280
 & Discount allowed by the shopkeeper = 6%
 S.P. of the article = (100 - 6)% of ₹280
 = 94% of ₹280

$$= \frac{94}{100} \times 280 = ₹263.20$$

also, given that net profit = 5%
 S.P. = (100 + 5)% of C.P.
 ₹263.2 = 105% of C.P.

$$₹263.2 = \frac{105}{100} \times \text{C.P.}$$

$$\text{C.P.} = \frac{263.2}{105} \times 100$$

$$= ₹250.66$$

53.(C) $0.03\overline{598} + 0.12\overline{33}$
 $= \frac{3598 - 35}{9900} + \frac{1233 - 12}{9900}$
 $= \frac{3563 + 1221}{9900} = 0.48\overline{32}$

54. (D) 0.20 A, 0.25B, 0.30C
 20 A, 25B, 30C
 4A, 5B, 6C = K (say)

So,
 A : B : C

$$\frac{K}{4} : \frac{K}{5} : \frac{K}{6}$$

$$= \frac{K}{4} \times 60 : \frac{K}{5} \times 60 : \frac{K}{6} \times 60$$

$$= 15 : 12 : 10$$

55. (C) As per rule
 $(a^n + b^n)$ is divisible by $(a + b)$ when n is odd
 $\Rightarrow (16^{35} + 30^{35})$ is divisible by $(16 + 30)$ i.e. 46
 $\Rightarrow (16^{35} + 30^{35})$ will also be divisible by each
 and every factor of 46
 (i.e. by 1, 2 and 23 also)
 $\Rightarrow (16^{35} + 30^{35})$ is also divisible by 23
 \Rightarrow remainder = 0

56. (B) Let 1st part = x
 So, 2nd part = 90 - x

A.T.Q., $\frac{1}{5}$ of x : $\frac{1}{6}$ of (90 - x) = 2 : 3

$$\Rightarrow \frac{\frac{x}{5}}{\frac{(90-x)}{6}} = \frac{2}{3}$$

$$\frac{6x}{5(90-x)} = \frac{2}{3}$$

$$18x = 10(90-x)$$

$$18x = 900 - 10x$$

$$28x = 900$$

$$x = 32.14$$

57. (B) Average age of all the boys = Sum of the
 ages of all the boys \times Total number of boys

$$\frac{(15 \times 10) + (5 \times 12)}{(15 + 5)} = \frac{(150 + 60)}{(15 + 5)} = \frac{210}{20}$$

$$= 10\frac{1}{2} \text{ yrs.}$$

58. (C) Let C.P. of the article = ₹x.

A.T.Q,

(S.P. at 30% profit) - (S.P. at 25% profit) = ₹20

$$\frac{130x}{100} - \frac{125x}{100} = 20$$

$$\frac{5x}{100} = 20$$

$$5x = 2000$$

$$x = 400$$

59. (B) Average speed = $\frac{\text{Total distance Travelled}}{\text{Total time taken}}$

$$\text{Total Distance} = 5 + 5 + 5 + 5$$

$$= 20 \text{ km.}$$

$$\text{Total Time} = \frac{5}{30} + \frac{5}{60} + \frac{5}{90} + \frac{5}{150}$$

$$= \frac{305}{900} \text{ hrs.}$$

$$\text{Average speed} = \frac{20}{305/900} = 59.02 \text{ km/hr.}$$

60.(B) Let the population 2 yrs. ago be x
 Then,

$$59400 = x \left(\frac{120}{100} \right) \left(\frac{80}{100} \right)$$

$$x = \frac{59400 \times 100}{12 \times 8}$$

$$x = 61875$$