

HARYANA SSC MOCK TEST - 39 (SOLUTION)

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

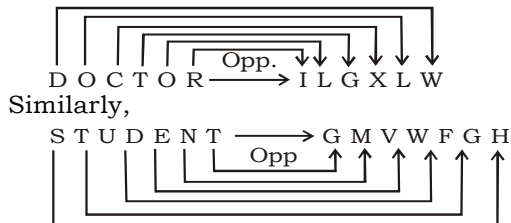
Explanation:

41. (D) Carrot is the only vegetable mentioned here that grows underground.

42. (D)
$$\begin{array}{ccccccc} 6 & 14 & 30 & 54 & & & \\ \uparrow & \uparrow & \uparrow & \uparrow & & & \\ +8 & +16 & +24 & & & & \\ \downarrow & \downarrow & \downarrow & & & & \\ \times 2 & \times 3 & & & & & \end{array}$$

43. (D) Menu lists all the food items in a restaurant, Similarly, Catalogue is a list of all the books in the library.

44. (C) From opposite end the letters are-



45. (A)

46. (B) a a b b b b / a a a b b b / a a a a

47. (C) **SISTER**

48. (D) The son of her only brother means her nephew
The brother of my wife means My

Brother- in-law

so 'her nephew is my brother-in-law'
so she is 'sister of my father-in-law'

49. (D)
$$\begin{array}{ccc} Q & \dots & N \\ | & & (+) \\ () & \dots & M \\ (+) & & (+) \\ | & & \\ P & & \end{array}$$

So N is M's paternal uncle or Maternal Uncle.

50. (C)

51. (A) Larger number

$$= \frac{\text{Sum of two numbers} + \text{Difference of two numbers}}{2}$$

$$= \frac{102 + 42}{2} = \frac{144}{2} = 72$$

52. (D) Let Vivek's present age = x
and his uncle's present age = y
ATQ,

$$x = y - 30 \quad \dots (i)$$

$$(y - 5)$$

Also, $(x - 5) = 4 \quad \dots (ii)$

or, $4x - 20 = y - 5$

or, $4(y - 30) - 20 = y - 5 \quad [\text{From (i)}]$

or, $4y - 120 - 20 = y - 5$
 or, $3y = 135$
 $\Rightarrow y = 45$ yrs
 So,
 Vivek's uncle age after 5 yrs from today
 $= y + 5$
 $= (45 + 5)$ yrs
 $= 50$ yrs

53. (A) Increase in amount in 3 yrs
 $= ₹980 - ₹944$
 $= ₹36$

\Rightarrow Increase in amount in 1 yr

$$= ₹ \frac{36}{3} = ₹12$$

ATQ,

25% of initial interest per year
 $= ₹12$

\Rightarrow Initial interest per year
 $= ₹48$

\Rightarrow Total interest in 3 years
 $= ₹(48 \times 3)$
 $= ₹144$

\Rightarrow Principal sum = ₹944 - ₹144
 $= ₹800$

and rate of interest = $\frac{48}{800} \times 100\%$
 $= 6\%$

54. (A) Let required cost to Mahesh = ₹x
 So, ATQ,

$$x \times \frac{110}{100} \times \frac{105}{100} = ₹462$$

$$\Rightarrow x = ₹462 \times \frac{100}{110} \times \frac{100}{105}$$

$$= ₹400$$

55. (B) $\therefore A : B = 11 : 13$

So, Let the values of A & B = $11x$ & $13x$

Now,

ATQ,

$$\frac{11x - 12}{13x - 12} = \frac{7}{9}$$

or, $99x - 108 = 91x - 84$

or, $8x = 24$

$\Rightarrow x = 3$

\Rightarrow Values of A and B are (11×3) and (13×3)
 $= 33$ & 39

56. (C) Students failed in Mathematics; $n(M) = 50\%$
 Students failed in Biology; $n(B) = 40\%$
 Students pass in both; $n(M \cup B)' = 30\%$

\Rightarrow Students failed in at least one subjects
 out of Mathematics and Biology;

$$n(M \cup B) = 100\% - n(M \cup B)'$$

$$= 100\% - 30\% = 70\%$$

So, Students failed in both the subjects;

$$n(M \cap B) = n(M) + n(B) - n(M \cup B)$$

$$= 50\% + 40\% - 70\% = 20\%$$

57. (C) $\therefore 45 = 5 \times 9$

(where 5 and 9 are co-prime numbers)

So, If number $543xy$ is divisible by 45.

\Rightarrow the number $543xy$ will be divisible by
 both 5 & 9.

(i) When $543xy$ is divisible by 5.

$\Rightarrow y =$ either 0 or 5.

(i) (a) When $y = 0$

then, $(5 + 4 + 3 + x + 0)$ will also be
 divisible by 9.

or, $12 + x$ will also be divisible by 9.

$\Rightarrow x = 6 \Rightarrow x + y = 6 + 0 = 6$

(i) (b) When $y = 5$

then $(5 + 4 + 3 + x + 5)$ will also be divisible
 by 9.

or, $(17 + x)$ will be divisible by 9.

$\Rightarrow x = 1 \Rightarrow x + y = 1 + 5 = 6$

In both the cases, $x + y = 6$

58. (C) Let $x =$ speed of boat

So,

$$\begin{array}{ccc} \text{Time down} & & \text{Time up} \\ \text{stream} & + & \text{stream} \\ & & = 6 \text{ hours} \end{array}$$

$$\text{So, } \frac{5 \text{ km}}{(x + 2) \text{ km/hr}} + \frac{5 \text{ km}}{(x - 2) \text{ km/hr}} = 6 \text{ hours}$$

$\Rightarrow x = 3$ km/hr (from options)

59. (C) A : B : C = 2 : 3 : 4

$$\text{So, } \frac{A}{B} : \frac{B}{C} : \frac{C}{A} = \frac{2}{3} : \frac{3}{4} : \frac{4}{2}$$

$$= \frac{2}{3} \times 12 : \frac{3}{4} \times 12 : \frac{4}{2} \times 12 = 8 : 9 : 24$$

60. (B) In GP,

Sum upto n terms;

$$S_n = \frac{a(r^n - 1)}{r - 1}$$

[where, $a \rightarrow$ 1st term, $r \rightarrow$ common ratio]

So, here, ATQ

Sum upto 8 terms;

$$6560 = \frac{a(3^8 - 1)}{3 - 1}$$

$$\Rightarrow a = \frac{6560 \times 2}{3^8 - 1} = \frac{6560 \times 2}{6560} = 2$$

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