

HARYANA CONSTABLE MOCK TEST-67 (SOLUTION)

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

Explanation:

$$4. (B) \quad \frac{\frac{3}{2+\sqrt{3}} - \frac{2}{2-\sqrt{3}}}{2-5\sqrt{3}} = \frac{3(2-\sqrt{3}) - 2(2+\sqrt{3})}{(2)^2 - (\sqrt{3})^2}$$

$$= \frac{6 - 3\sqrt{3} - 4 - 2\sqrt{3}}{2 - 5\sqrt{3}} = \frac{2 - 5\sqrt{3}}{2 - 5\sqrt{3}} = 1$$

5. (D) SP = ₹ 75

Let CP of watch is ₹x.

SP = x + x% of x

$$75 = \frac{x}{1} + \frac{x^2}{100}$$

$$\Rightarrow x^2 + 100x - 7500 = 0$$

$$x = \frac{-100 \pm \sqrt{(100)^2 - 4 \times 1 \times -7500}}{2 \times 1}$$

$$= \frac{-100 \pm \sqrt{10000 + 30000}}{2}$$

$$= \frac{-100 \pm 200}{2}$$

$$x = \frac{-100 + 200}{2} = \frac{100}{2}$$

$$x = 50$$

The CP of the watch is ₹ 50

11. (B) SI for one year = $\frac{500}{2}$

$$= ₹ 250$$

$$\therefore \text{SI for ₹ 250 in one year} = 520 - 500$$

$$= ₹ 20$$

$$\therefore R = \frac{SI \times 100}{P \times T} = \frac{20 \times 100}{250} = 8\%$$

12. (D) Let expense = ₹ 3x

and saving = ₹ 4x

new expense = ₹ 4x

Increment in the expense = 4x - 3x

$$= ₹ x$$

percentage increment in the expense


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$$= \frac{x}{3x} \times 100$$

$$= 33\frac{1}{3}\%$$

$$= 33.33\%$$

18. (C) Let first positive number = x
and second positive number = $x + 3$

Now,

$$x^2 + (x + 3)^2 = 369$$

$$2x^2 + 6x + 9 - 369 = 0$$

$$x^2 + 3x - 180 = 0$$

$$\Rightarrow (x - 12)(x + 15) = 0$$

$$x = 12, -15$$

Sum of two positive numbers

$$= x + (x + 3)$$

$$= 12 + (12 + 3)$$

$$= 12 + 15$$

$$= 27$$

19. (D) Let three numbers are A, B and C.

$$\therefore A = 2B = 4C$$

$$C = x$$

$$2B = 4C$$

$$B = 2C = 2x$$

Now,

$$A = 2B = 2 \times 2x = 4x$$

$$A + B + C = 140$$

$$4x + 2x + x = 140$$

$$x = \frac{140}{7} = 20$$

$$\text{The greatest number} = 4x = 4 \times 20 = 80$$

25. (A) 50% of $(x - y) = 30\%$ of $(x + y)$

$$\frac{50}{100}(x - y) = \frac{30}{100}(x + y)$$

$$5x - 5y = 3x + 3y$$

$$2x = 8y$$

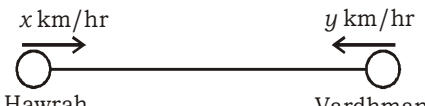
$$\frac{x}{y} = \frac{8}{2} = 4$$

$$x = 4y$$

$$\text{Percent of } y \text{ in terms of } x = \frac{y}{x} \times 100$$

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

$$= 25\%$$

26. (C)
- 
- Hawrah Vardhman

$$\text{Average speed} = \frac{2xy}{x + y}$$

$$= \frac{2 \times 40 \times 60}{(40 + 60)} = \frac{4800}{100}$$

$$= 48 \text{ km/hr}$$

27. (D) Let three consecutive even numbers are x , $(x + 2)$ and $(x + 4)$.

ATQ,

$$3x - 2(x + 4) = 4$$

$$\Rightarrow 3x - 2x - 8 = 4$$

$$\Rightarrow x = 12$$

$$\text{So, second number} = x + 2$$

$$= 12 + 2 = 14$$

33. (C) $75^2 = 5625 \Rightarrow \sqrt{5625} = 75$

$$\text{So, } \sqrt{5625} + \sqrt{56.25} + \sqrt{0.5625} + \sqrt{0.005625}$$

$$+ \sqrt{0.00005625}$$

$$= 75 + 7.5 + 0.75 + 0.075 + 0.0075$$

$$= 83.3325$$

34. (A) Let required number is x

ATQ,

$$\frac{7}{8}x - \frac{7}{18}x = 770$$

$$\text{or, } 7x \left(\frac{1}{8} - \frac{1}{18} \right) = 770$$

$$\text{or, } x \left(\frac{9 - 4}{72} \right) = 110$$

$$\text{or, } 5x = 110 \times 72$$

$$\text{or, } x = 1584$$

35. (A) CP of 25 mangoes = SP of 20 mangoes

$$\Rightarrow \text{CP} : \text{SP}$$

$$= 20 : 25$$

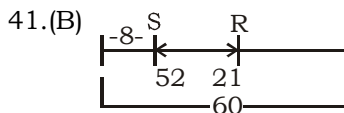
$$= 4 : 5$$

$$\text{So, Percentage profit} = \frac{\text{SP} - \text{CP}}{\text{SP}} \times 100\%$$

$$= \frac{5 - 4}{4} \times 100\% = \frac{1}{4} \times 100\%$$

$$= 25\% \text{ profit}$$

40. (C) In environmental science we read about the environment. Similarly, In Histology we read about the Tissues.



Let n is the number of man between R and S.

$$8 + R + S + n = 21$$

$$8 + 1 + 1 + n = 21$$

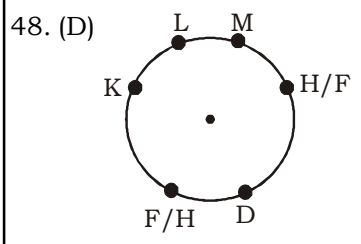
$$n = 21 - 10 = 11$$

42. (D)


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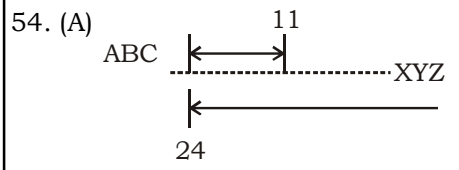
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47. (C) $\frac{16}{\times 0.25} \uparrow \frac{4}{\times 0.5} \uparrow \frac{2}{\times 0.75} \uparrow \frac{1.5}{\times 1} \uparrow \frac{1.5}{\times 1.25} \uparrow$



H or F is second to the right of L?

53. (C)



$(24 - 11) = 13$ th from the right.

So, 13th from Z = **N**

55. (B)

$\begin{matrix} \rightarrow \\ \text{HN} \\ \uparrow \\ \text{NO} \\ \uparrow \\ \text{NR} \\ \uparrow \\ \text{OR} \end{matrix}$	$= 4$
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61. (A) Pulp Paper Print Publish Purchase
 1 3 2 5 4

62. (C) 5293723924137265412463287

68. (B) (A) C E G I K M
 $\downarrow +2 \uparrow \downarrow +2 \uparrow \downarrow +2 \uparrow \downarrow +2 \uparrow$
 (B) M O R T V X
 $\downarrow +2 \uparrow \downarrow +3 \uparrow \downarrow +2 \uparrow \downarrow +2 \uparrow$
 (C) P R T V X Z
 $\downarrow +2 \uparrow \downarrow +2 \uparrow \downarrow +2 \uparrow \downarrow +2 \uparrow$
 (D) Z B D F H J
 $\downarrow +2 \uparrow \downarrow +2 \uparrow \downarrow +2 \uparrow \downarrow +2 \uparrow$

76. (B) e f / e e f f / e e e f f f / e e e e / f f f f

77. (C) $\begin{matrix} 6 & 9 & 7 & 8 & 16 \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ F & I & G & H & T \end{matrix}$

Note:- If your opinion differs regarding any answer, please message the mock test and question number to 8860330003

Note:- Whatsapp with Mock Test No. and Question No. at 7053606571 for any of the doubts. Join the group and you may also share your suggestions and experience of Sunday Mock Test.

Note:- If you face any problem regarding result or marks scored, please contact 9313111777