

HARYANA SSC MOCK TEST-29 (Solution)

16. (A) Milk : Water
 4 : 1 \rightarrow 5 \times 2 = 10 L
 2 \times 2 : 3 \times 2 \rightarrow +5 unit 10 L
 1 unit \rightarrow 2 L
 Quantity of total mixture = 10 + 10 = 20 L

17. (A)

Selling Price - 36
 Profit P.% - 20% - $\frac{1}{5}$
 then - C.P. : S.P.
 5 : 6
 $\downarrow \times 6$ $\downarrow \times 6$
 30 36

18. (B) Let the Principal be = ₹ x
 ATQ, $\frac{P \times R \times T_1}{100} - \frac{P \times R \times T_2}{100}$
 = ₹1800
 $\Rightarrow \frac{P \times 12 \times 5.5}{100} - \frac{P \times 12 \times 3.5}{100} = 1800$
 $\Rightarrow 66P - 42P = 1800 \times 100$
 $\Rightarrow P = \frac{1800 \times 100}{24}$
 P = ₹ 7500

19. (C)

Sita \rightarrow 15 day \rightarrow 4 unit/day
 Geeta \rightarrow 20 day \rightarrow 3 unit/day
 Sita+Geeta \rightarrow 60 unit total work
 +Reeta \rightarrow 5 day \rightarrow 12 unit/day
 Reeta's work = 12 - 4 - 3 = 5 unit/day
 share of Reeta = $\frac{600 \times 5}{12}$
 = 250 ₹

20. (A) The sum of the temperature from 9th to 16th January = $11.6 \times 8 = 92.8^\circ\text{C}$ - (i)
 The sum of the temperature from 10th January to 17th = $12.2 \times 8 = 97.6^\circ\text{C}$ - (ii)
 By subtracting eq.(2) from eq(1), we get
 $17^{\text{th}} - 9^{\text{th}} = 4.8^\circ\text{C}$
 then temperature on 17th = $4.8^\circ\text{C} + 10.8^\circ\text{C}$
 = 15.6°C

21. (D) Weight of 19 students = 19×25
 = 475 kg
 Weight of 20 students = 20×24.8
 = 496 kg

then Weight of new student = $496 - 475$
 = 21 kg

22. (D) $\frac{M_1 \times H_1 \times D_1}{W_1} = \frac{M_2 \times H_2 \times D_2}{W_2}$
 $\Rightarrow \frac{10 \times 8 \times 25}{50} = \frac{15 \times 6 \times D_2}{36}$
 $D_2 = \frac{10 \times 8 \times 25 \times 36}{50 \times 15 \times 6}$
 = 16 day

23. (A) In the first alloy, zinc = $\frac{1}{3}$
 In second alloy, zinc = $\frac{2}{5}$

In the new alloy, zinc = $\frac{5}{13}$
 By the rule of alligation,

A $\frac{1}{3}$ B $\frac{2}{5}$
 $\frac{5}{13}$
 $\frac{2}{5} - \frac{5}{13}$ $\frac{5}{13} - \frac{1}{3}$

\therefore Req. Ratio = $\left(\frac{2}{5} - \frac{5}{13}\right) : \left(\frac{5}{13} - \frac{1}{3}\right)$
 = $\frac{26-25}{65} : \frac{15-13}{39}$
 = $\frac{1}{65} : \frac{2}{39} = \frac{1}{5} : \frac{2}{3} = 3:10$

24. (D) Let the cost of each banana = ₹ x

Discount = $\frac{x \times 40}{100} = ₹ \frac{2x}{5}$

New cost = $x - \frac{2x}{5} = \frac{3x}{5}$

ATQ,

$\frac{45}{\frac{3x}{5}} - \frac{45}{x} = 60$ bananas

$\Rightarrow \frac{75}{x} - \frac{45}{x} = 60$

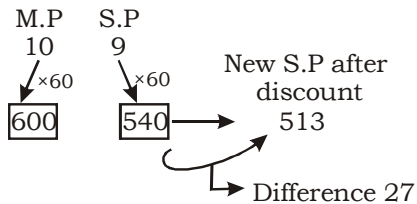

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$$x = \frac{30}{60} = ₹.5 \text{ or } 50 \text{ paise}$$

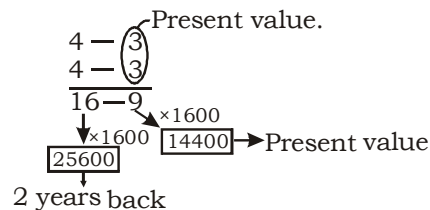
$$\text{then reduced price} = \frac{3 \times 50}{5} = 30 \text{ paise}$$

25. (B) $10\% \rightarrow \frac{1}{10}$



$$\text{then, Discount P\%} = \frac{54}{600} \times 100 = 9\%$$

26. (D) Rate = $25\% = \frac{1}{4}$



27. (D) Total salary of 20 employees = $1900 \times 20 = ₹38000$

20 employees + Manager's salary = $2000 \times 21 = ₹42000$

∴ Manager's 1 month salary = ₹4000
Annual salary of manager = $4000 \times 12 = ₹48000$

28. (C) Let the Principal be = ₹100
According to the question,

$$\frac{100 \times 40 \times 15}{100 \times 100} + \frac{100 \times 30 \times 10}{100 \times 100} + \frac{100 \times 30 \times 18}{100 \times 100}$$

$$= 6 + 3 + \frac{54}{10} = ₹ \frac{144}{10} \text{ interest on ₹100}$$

$$\text{then, rate\%} = \frac{\frac{144}{10}}{100} \times 100$$

$$= 14.4\% \text{ per annum}$$

29. (C) Area of four walls = $2(l+b)h$
= $2(5+4)4$
= 72 m

$$\text{Length of the paper} = \frac{50}{100} = \frac{1}{2} \text{ m}$$

$$\text{then, } 72 = l \times \frac{1}{2}$$

$$\text{So, length of the paper} = 144 \text{ m}$$

30. (B) Let the expenditure of mess/student = x

then exp. of 40 students = $40x$

exp. of 48 students = $48(x-2) = 48x - 96$

$$48x - 96 = 40x + 48$$

$$\Rightarrow 8x = 144$$

$$\Rightarrow x = 18$$

$$\text{Total exp.} = 18 \times 40 = ₹ 720$$



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HARYANA SSC MOCK TEST - 29 (ANSWER KEY)

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

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