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2007, OUTRAM LINES, 1ST FLOOR, OPPOSITE MUKHERJEE NAGAR POLICE STATION, DELHI-110009

HARYANA SSC MOCK TEST - 36 (SOLUTION)

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

Explanation:

41. (A) cub is young wild animal.

42. (B) M N O P / W X Y Z / R S T U / B C D E

43. (B) Paper made by tree similarly glass made by Sand.

44. (C)

		+1		
M	A	D	R	A
↓	↓	↓	↓	↓
N	B	E	S	B

Similarly,

		+1		
B	O	M	B	A
↓	↓	↓	↓	↓
C	P	N	C	B

45. (B)

Perk	Pick	Pile	Pith	Pour
4	1	3	2	5

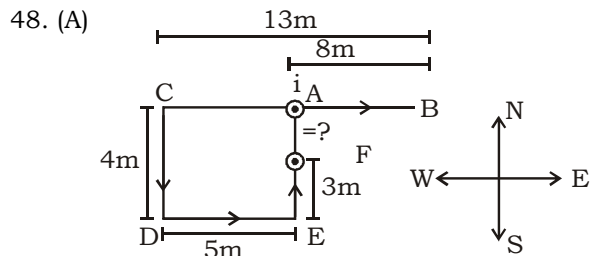
46. (A) abc/bca/cab/abc/bca

47. (D) $6 \times \underline{5} + 2 = 32$

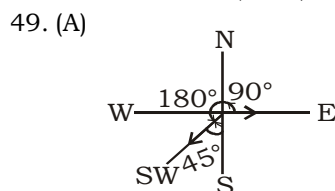
$$4 \times \underline{5} + 7 = 27$$

Similarly,

$$6 \times \underline{5} + 7 = 37$$



$$CD - EF = (4 - 3) M = 1m$$

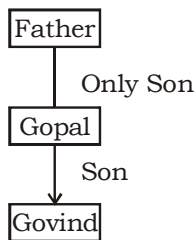


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50. (D)



51. (B) $x + \frac{1}{x} = \sqrt{3}$

Cubing both sides

$$x^3 + \frac{1}{x^3} + 3x \cdot \frac{1}{x} \left(x + \frac{1}{x} \right) = 3\sqrt{3}$$

$$\left[\text{Put } x + \frac{1}{x} = \sqrt{3} \right]$$

$$x^3 + \frac{1}{x^3} = 0$$

Cubing both sides

$$x^9 + \frac{1}{x^9} + 3x^3 \cdot \frac{1}{x^3} \left(x^3 + \frac{1}{x^3} \right) = 0$$

$$x^9 + \frac{1}{x^9} = 0 \quad \left[\text{Multiply by } x^8 + \frac{1}{x^8} \right]$$

$$\left(x^9 + \frac{1}{x^9} \right) \left(x^8 + \frac{1}{x^8} \right) = 0$$

$$x^{17} + \frac{1}{x^{17}} + x + \frac{1}{x} = 0 \quad \left[\text{Put } x + \frac{1}{x} = \sqrt{3} \right]$$

$$\Rightarrow x^{17} + \frac{1}{x^{17}} = -\sqrt{3}$$

52. (B) Given that $a = 20$ km/h, $b = 4$ km/h,

$t_1 = 30$ min, $t_2 = 10$ m

According to the formula,

$$\text{Required distane} = (t_1 - t_2) (a+b) \frac{a}{b}$$

$$= \frac{(30 - 10)}{60} (20 + 4) \frac{20}{4}$$

$$= \frac{20}{60} \times 24 \times \frac{20}{4}$$

$$= 5 \times 8$$

$$= 40 \text{ km}$$

53. (B) $\frac{1}{3} \left[\frac{1}{4} - \frac{1}{7} + \frac{1}{7} - \frac{1}{10} + \frac{1}{10} - \frac{1}{13} + \frac{1}{13} - \frac{1}{16} \right]$

$$= \frac{1}{3} \left[\frac{1}{4} - \frac{1}{16} \right]$$

$$= \frac{1}{3} \times \frac{3}{16} = \frac{1}{16}$$

54. (A) Let CP be x .

$$\text{SP} = 1.2x \quad [\text{Profit of } 20\%]$$

Let cost on accessories be y .

$$1.2x = 0.9(x + y) \quad [\text{Net loss of } 10\%]$$

$$0.3x = 0.9y$$

$$y = \frac{x}{3}$$

$$\text{Total cost} = x + y = x + \frac{x}{3} = \frac{4}{3}x$$

$$\% \text{ of total cost on accessories} = \frac{y}{\frac{4}{3}x} \times 100$$

$$= \frac{\frac{x}{3}}{\frac{4}{3}x} \times 100 = 25\%$$

55. (A) Copper in Alloy 1 = $\frac{3}{7} \times 14 = 6$ kg

$$\text{Copper in Alloy 2} = \frac{5}{13} \times 26 = 10 \text{ kg}$$

Total copper = 16 kg

Total zinc = 40 - 16 = 24 kg

New ratio = 16 : 24 (copper & zinc)

= 2 : 3

56. (B) Sum increased to 32 times = 2^5 times

Time taken = $5 \times n(s) = 5 \times 5 = 25$ years

57. (C) Time taken to cross length of train = 20 sec

Time taken to cross (length + 200 m) = 35 sec

Time taken to cross 200 m = 15 sec

In 15 sec, it travels 200 m


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In 20 sec, it travels its own length

$$\begin{aligned} &= \frac{200}{15} \times 20 = \frac{800}{3} \\ &= 266.67 \text{ m} \end{aligned}$$

58. (C) $\sqrt{4 + \sqrt{44 + 100}} = \sqrt{4 + \sqrt{144}} = \sqrt{4 + 12}$
 $= \sqrt{16} = 4$

59. (B) $A = B + 150\% B$
 $A = 2.5 B$

$$B = \frac{A}{2.5} = 0.4A$$

$B = 40\%$ of A

B is 60% less than A .

60. (B) A takes 3 times as much time as B & C together.

$\Rightarrow B$ & C can work 3 times as much as A

A, B & C can finish the work in 10 days.

$3A + A$ can finish the work in 10 days.

1 A can finish the work in 40 days.

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