HARYANA SSC MOCK TEST-16 (Solutions)

1. (A) C L O S E   D N R W J
   +1, +2, +3, +4, +5

   O P E N   P R H R
   +1, +2, +3, +4

2. (A) M A D   J X A   R U N   O R K
   +3, +3, +3, +3, +3, +3
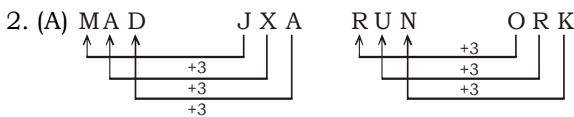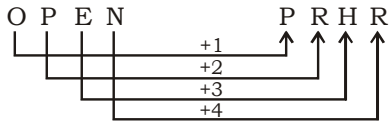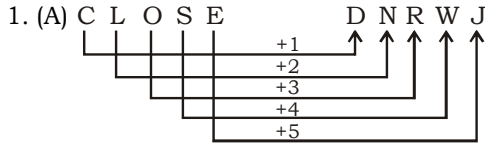
3. (B) Botany is the branch of science which deals with the study of plants. Similarly, Entomology is the branch of science which deals with the study of insects.

4. (C) As, Love and Hate are Antonyms to each other. Similarly, friend and **enemy** are antonyms to each other.

5. (D) Except option (D), The digits can be obtained by replacing their places.

6. (B) In all other numbers, the sum of the digits is 17.

7. (D) We have A = 2, B = 3, ..., Z = 27.
   Then, FOR
   = F + O + R = 7 + 16 + 19 = 42.
   FRONT = F + R + O + N + **T**
   = 7 + 19 + 16 + 15 + 21 = 78

8. (B)

9. (C) 3   6   4 [Moving clockwise direction]
   ↓   ↓   ↓
   3   1   5

   $\boxed{2}$

   Clearly, we can say that 4 is opposite to 5.

10. (C)

11. (B) Clearly, we have to find a number which lies inside the triangle, rectangle and circle, which is 4.

12. (C) The correct sequence is 3, 3^2, 3^3, 4, 4^2, 4^3, 5, 5^2, 5^3
   So, 10 is wrong and it must be replaced by 3^2 i.e, 9.

13. (C) The correct sequence is
   <u>a</u> b b/ a <u>a</u> b/ a <u>b</u> b/ a a <u>b</u>/ a b <u>b</u>/ a

14. (A)

15. (B) In right side the number is increasing by 1.
   2 + 1 = 3, 3 + 1 = 4 and 4 + 1 = 5
   In left side, the number is decreasing by 2.
   11 – 2 = 9, 9 – 2 = 7, 7 – 2 = 5

16. (D) Total CP = ₹ 32

   Total SP = $\dfrac{12}{12}$ × 18 + $\dfrac{4}{12}$ × 6

   = (18 + 2) = ₹ 20

   Loss % = $\left(\dfrac{32 - 20}{32}\right)$ × 100 = 37.5%

17. (C) Work done = $\dfrac{11}{30}$

   Remaining work = $\dfrac{19}{30}$

   $\dfrac{19}{30}$ work in 28 days

   whole work in = $\dfrac{30 \times 28}{19}$ days

   = $\dfrac{840}{19}$ days

   = $44\dfrac{4}{19}$ days

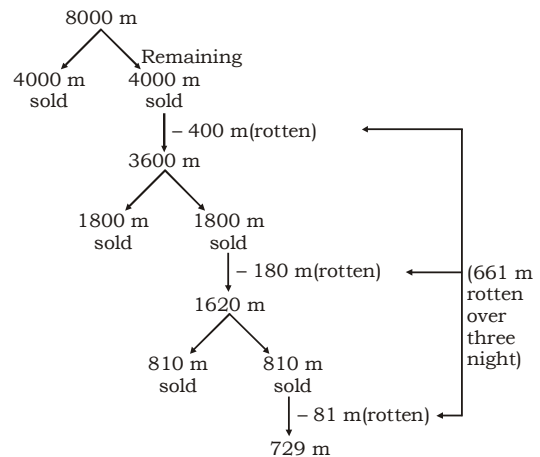18. (A) Let total number of candidates be x.
   ∴ $50x - 30 \times 100 = 45x$
   ⇒ $5x = 3000$

   ⇒ $x = \dfrac{3000}{5}$ = 600

19. (B) Let there were 8000 mangoes initially. Then,

   8000 m
   → 4000 m sold, 4000 m Remaining sold
   – 400 m (rotten)
   3600 m
   → 1800 m sold, 1800 m sold
   – 180 m (rotten)   (661 m rotten over three night)
   1620 m
   → 810 m sold, 810 m sold
   – 81 m (rotten)
   729 m

   Hence 661 m = 1983
   ⇒ $m = 3$
   Hence the total no. of mangoes
   = 3 × 8000
   = 24000

20. (A) Difference in time after accident
   = (4 + 1 – 3.5) hr
   = 1.5 km
   Distance = 150 km

   Speed = $\dfrac{150}{1.5} = 100$ km/h

Speed after accident 75% = $\dfrac{3}{4}$

ATQ,

	Before		After
Speed →	4	—	3
Time →	③	—	④

×4   1 hour late   ×4

Usual time → 12 hours ×4   16

4 hour late

Required distance = 12 × 100
= 1200 km

21. (A) By Alligation method,

Male   Female
10%   8%

9%

1   :   1
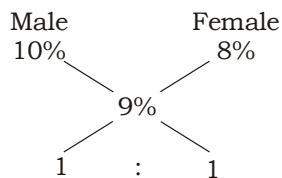
Ratio of male to female = 1 : 1

Number of males = $\dfrac{1}{2}$ × 8000 = 4000

22. (B) Unbroken tables

= $\dfrac{5}{6}$ × 108 = 90

Unbroken chairs = $\dfrac{3}{4}$ × 132 = 99

Unbroken pairs = 90

23. (B) LCM of 24, 36 and 54 seconds
= 216 seconds
= 3 minutes 36 seconds
∴ Required time = 10 : 15 : 00 + 3 minutes 36 seconds
= 10 : 18 : 36 AM

24. (C) $p \times q = p + q + \dfrac{p}{q}$

∴ $8 \times 2 = 8 + 2 + \dfrac{8}{2}$

= 10 + 4 = 14

25. (C) Total amount in the bag

= $\left(\dfrac{1}{4} \times 600 + \dfrac{1}{2} \times 1200 \right)$

= (150 + 600) = ₹ 750
The amount taken out

= $\dfrac{1}{4} \times \left(\dfrac{12}{100} \times 600 \right) + \dfrac{1}{2} \times \left(\dfrac{24 \times 1200}{100} \right)$

= $\left(\dfrac{1}{4} \times 72 + \dfrac{1}{2} \times 288 \right)$

= 18 + 144 = ₹ 162

Required percentage = $\dfrac{162}{750}$ × 100 = 21.6%

26. (C) Let C.P = 1000

M.P = 1000 × $\dfrac{115}{100}$ = 1150

Profit = 1150 – 920 = 230
∴ Profit % when traders uses a watt of 920 g

instead of 1 kg = $\left(\dfrac{230}{920} \times 100 \right)\%$ = 25%

27. (C) Average speed = $\dfrac{2 \times 6 \times 3}{(6+3)}$ = 4 km/hr

28. (B) Let the present age of son is x years.
Age of father = 42 years
ATQ,
$2x$ = 42 years,
x = 21 years
∴ Age of son 5 years back was
= 21 – 5 = 16 years

29. (B) Given CP of 40 books = ₹ 3200
According to the question,
SP of 40 books
= CP of 40 books + SP of 8 books
[∴ SP = CP + PROFIT]
SP of 32 books = ₹ 3200
[∴ CP of 40 books = 3200]
SP of 1 book = ₹ 100
SP of 1 dozen books = ₹ 1200

30. (C) $16\dfrac{1}{2}\% = \dfrac{25}{2}\% = \dfrac{25}{2} \times \dfrac{1}{100} = \dfrac{1}{8}$

HARYANA SSC MOCK TEST - 16 (ANSWER KEY)

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