

**HARYANA SSC MOCK TEST-18 (Solutions)**

1. (C)  $35 : 4 :: 49 : 6$   
 Even No.  $\downarrow$   
 Odd No.  $\uparrow$

2. (D) B E H K : P S V Y :: A D G J : M P S V  
 -3 -3 -3 -3  
 -1 -1 -1 -1

3. (B) Z Y X W : M L K J :: R Q P O : E D C B  
 -1 -1 -1 -1  
 -10 -10

4. (D)  $7 : 36 = 3 + 6 \Rightarrow 9 - 2$   
 Similarly using options  
 $8 : 64 = 6 + 4 \Rightarrow 10 - 2 = 8$   
 so,  $7 : 36 :: 8 : 64$

5. (D) Except Eng all are name of work.  
 6. (A) Except QRP all contain middle letter as a vowel.

7. (C)  $6 \quad 9 \quad 12 \quad 15 \quad 18 \quad 22$   
 $\uparrow +3 \quad \uparrow +3 \quad \uparrow +3 \quad \uparrow +3 \quad \uparrow +4$

8. (C)  $\frac{\text{Tutor}}{1} \quad \frac{\text{Umbrella}}{5} \quad \frac{\text{Verify}}{3} \quad \frac{\text{Wonder}}{2} \quad \frac{\text{Xylophone}}{4}$

9. (D)  $500 \quad 484 \quad 459 \quad 423 \quad 374$   
 $\downarrow (-4)^2 \quad \downarrow (-5)^2 \quad \downarrow (-6)^2 \quad \downarrow (-7)^2$

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

11. (D)

12. (C) C E N T U R I O N  
 $\downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow \downarrow$   
 3 2 5 7 9 1 4 6 5  
 R A N K  
 $\downarrow \downarrow \downarrow \downarrow$   
 1 8 5 9

Similarly, T A N K  
 $\downarrow \downarrow \downarrow \downarrow$   
 7 8 5 9

13. (B) Colour of blood is red. Here Blue means Red so colour of Blood is Blue  
 14. (B) Common section of urban and corrupt people are 9  
 15. (B)  
 16. (B) The man had 25 oranges left.  
 As one extra orange was given to the fourth customer  
 So, oranges given to fourth customer =  $25 + 1 = 26$

Stock before the fourth customer =  $2(25 + 1) = 52$

Accordingly stock before the third customer =  $2(52 + 1) = 106$

Similarly stock before the second customer =  $2(106 + 1) = 214$

So, Stock before the first customer =  $2(214 + 1) = 430$

Thus the man had 430 oranges in beginning.

17. (A)  $\frac{\sqrt{1}, x, \sqrt{1}, x, \sqrt{1}, x}{\sqrt{1}, x, \sqrt{1}, x, \sqrt{1}, x}} \propto \frac{\sqrt{1}, x, \sqrt{1}, x}{\sqrt{1}, x, \sqrt{1}, x}$   
 $= \frac{(\sqrt{1}, x)^2, (\sqrt{1}, x)^2, 2\sqrt{1}, x^2}{(\sqrt{1}, x)^2 \cdot (\sqrt{1}, x)^2}$   
 $= \frac{1, x, 1, x, 2\sqrt{1}, x^2}{1, x, 1, x}$   
 $= \frac{2, 2\sqrt{1}, x^2}{2x} = \frac{1 + \sqrt{1 - x^2}}{x}$

Put  $x = \frac{\sqrt{3}}{2}$

G.E. =  $\frac{1, \sqrt{1 - \frac{3}{4}}}{\frac{\sqrt{3}}{2}} = \frac{\frac{3}{2}}{\frac{\sqrt{3}}{2}} = \sqrt{3}$

18. (A) Net % change in area =  $P_1, P_2, \left| \frac{P_1 P_2}{100} \right|$

=  $4.5, \frac{4(.5)}{100}$

=  $4.5 \cdot \frac{1}{5} = \frac{.6}{5} \%$

19. (B) Suppose the batsman played 'x' innings in beginning

Total score in x innings =  $21.75x$

Total score in next 3 innings =  $28 + 34 + 37 = 99$

Total score of (x + 3) innings =  $21.75x + 99$

New average =  $21.75 + 1.125 = 22.875$

Total score = New average  $\times$  Total innings

$21.75x + 99 = (x + 3) \times 22.875$

$22.875x - 21.75x = 99 - 68.625$

$1.125x = 30.375$

$x = 30$

Total number of innings played =  $x + 3 = 30 + 3 = 33$

20. (B)  $A + B + C = 800$  ..... (1)

$$\frac{3}{5}A + 50 = \frac{4}{9}B + 20 = \frac{5}{19}C + 40 = K \text{ (say)}$$

$$A = \frac{5}{3}(K - 50)$$

$$B = \frac{9}{4}(K - 20)$$

$$C = \frac{19}{5}(K - 40)$$

Putting in equation (1)

$$\frac{5}{3}(K - 50) + \frac{9}{4}(K - 20) + \frac{19}{5}(K - 40) = 800$$

$$K \left\{ \frac{5}{3}, \frac{9}{4}, \frac{19}{5} \right\} \cdot \frac{250}{3} \cdot 45 \cdot 152 = 800$$

$$\frac{463}{60}K = \frac{3241}{3}$$

$$K = 140$$

$$B's \text{ share} = \frac{9}{4}(K - 20) = \frac{9}{4} \times 120 = 270$$

21. (C) Simple Interest earned in 10 years = 100%  
For a sum to become 4 times, interest earned = 300%

100% SI is earned in 10 years

300% SI will be earned in 30 years

22. (B) Amount of water flowing in 1 minute =  $k(d)^2$   
Amount of water filled by largest pipe in 1

$$\text{minute} = k(2)^2 = \frac{1}{61}$$

$$\Rightarrow k = \frac{1}{61 \times 4}$$

Amount of water filled by pipe of diameter 1 cm in 1 minute =  $k(1)^2 = k$

Amount of water filled by pipe of diameter

$$1\frac{1}{3} \text{ cm in 1 minute} = k \left\{ \frac{16}{9} \right\}$$

Amount of water filled by all the 3 pipes in

$$1 \text{ minute} = \frac{1}{61}, k, k \left\{ \frac{16}{9} \right\}$$

$$= \frac{1}{61}, \frac{1}{61 \times 4}, \frac{1 \times 16}{61 \times 4 \times 9}$$

$$= \frac{1}{36}$$

$\Rightarrow$  cistern will be full in 36 minutes.

23. (B) A takes  $\frac{1}{3}$  of the time taken by B.

A takes  $\frac{2}{3}$  less time than B.

$$\frac{2}{3} \text{ (time by B)} = 10 \text{ days}$$

$$\text{Time taken by B} = \frac{3 \times 10}{2} = 15 \text{ days}$$

24. (B) Distance travelled by the train in 12 minutes 30 seconds = Distance Travelled by the sound in 30 seconds

$$\text{Distance travelled by train in } 12\frac{1}{2} \text{ min} = 330 \times 30 \text{ metres.}$$

$$\text{Speed of train} = \frac{330 \times 30}{12\frac{1}{2} \times 60} \times \frac{18}{5} = \frac{1188}{25}$$

$$= 47\frac{13}{25} \text{ km/hr}$$

25. (B) Let Arvind's age be  $x$  years.

Then his father's age =  $4x$  years

$$4x - 5 = 7(x - 5) \text{ or } 3x = 30 \text{ or } x = 10$$

Arvind's father's age is 40 years.

$$26. (B) (0.04)^{-1.5} = \frac{1}{(0.004)^{1.5}} > \frac{1}{(0.2)^{\frac{2 \times 3}{2}}}$$

$$= \frac{1}{0.008} = 125$$

$$27(C) 5\frac{1}{2}, 6\frac{2}{3}, 4\frac{3}{4}, 8\frac{4}{5}$$

$$= \frac{11}{2}, \frac{20}{3}, \frac{19}{4}, \frac{44}{5}$$

$$= = \frac{487}{60} = 11\frac{7}{60}$$

$$28. (A) \text{ATQ, saving} = 3000 - \frac{60}{100} \times 3000 = ₹ 1200$$

$$29. (C) 29.56 + 53.807 - 24.935 = 83.367 - 24.935 = 58.432$$

30. (B) Let Principal =  $P$

$$] P \times \frac{2}{5} = \frac{P \times 8 \times t}{100}$$

$$\downarrow t = \frac{2 \times 100}{5 \times 8}$$

$$t = 5 \text{ years}$$

K D  
Campus

**K D Campus Pvt. Ltd**

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

**HARYANA SSC MOCK TEST - 18 (ANSWER KEY)**

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