

K D Campus
K D Campus Pvt. Ltd

PLOT NO. 2 SSI, OPP METRO PILLAR 150, GT KARNAL ROAD, JAHANGIRPUR DELHI: 110033

HSSC MOCK TEST – 135 (SOLUTION)

3. (B) Required sum = $\frac{n}{2}(2a + (n - 1)d)$

$$= \frac{10}{2} \left(2 \times \frac{1}{2} + (9) - \frac{1}{6}\right)$$

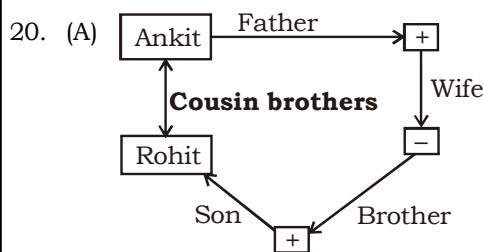
$$= 5\left(1 - \frac{3}{2}\right)$$

$$= 5 \times \left(\frac{-1}{2}\right) = \frac{-5}{2}$$

8. (C) ATQ,
 $P(n) = 3n - 1$
Put, $n = 1$
 $P(1) = 2^{3(1)} - 1 = 7$, it is divisible by 7.
Put $n = 2$
 $P(2) = 2^{3(2)} - 1 = 63$, it is divisible by 7.
Put $n = 3$
 $P(3) = 2^{3(3)} - 1 = 511$, it is divisible by 7.
Hence, $k = 7$
10. (*) All options are correct. In India total 82 earthquake recording stations.

13. (D) ATQ,
 $x + y + z = 17$ (i)
and, $y = x + z + 1$ (ii)
Now, $100z + 10y + x = 100x + 10y + z - 396$
 $\Rightarrow x - z = 396$ (iii)
On solving equation (i) and (ii)
 $2x + 2z = 17 - 1$
 $\Rightarrow x + z = 8$ (iv)
On solving equation (iii) and (iv)
 $x = 6$ and $z = 2$
 $\therefore y = 9$
 \therefore Required number = $100 \times 6 + 10 \times 9 + 2$
 $= 692$

16. (C) **babb**bbb/**a**bbbbb/abbb**b**
17. (D) As a is only arbitrary constant. Hence, order is 1.



29. (B) 3 men can seat $3!$ ways in 3 seats
3 women can seat $3!$ ways in 3 seats
 \therefore The total number of ways = $2! \times 3! \times 3!$
 $= 72$

34. (C) As, Hairs is related to skin, Similarly, **Grass** is related to **hand**.

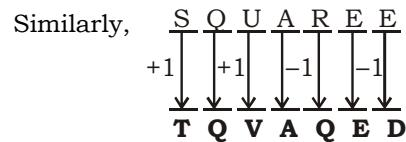
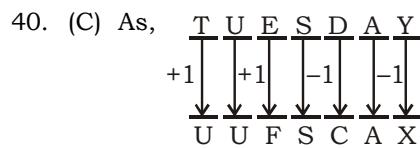
35. (B) ATQ,

$$A = \frac{1}{\sqrt{5} - \sqrt{6}} = -\sqrt{6} - \sqrt{5}$$

$$\frac{1}{A} = \frac{-1}{\sqrt{6} + \sqrt{5}} \times \frac{\sqrt{6} - \sqrt{5}}{\sqrt{6} - \sqrt{5}} = \sqrt{5} - \sqrt{6}$$

$$\left(A + \frac{1}{A}\right)^2 = (-\sqrt{6} - \sqrt{5} + \sqrt{5} - \sqrt{6})^2$$

$$A^2 + \frac{1}{A^2} = 24 - 2 = 22$$



41. (C) We know that,
 $\cos A \cos B = 1$ (if $A + B = 180^\circ$)
 $\therefore \cos 1^\circ \cos 2^\circ \cos 3^\circ \dots \cos 179^\circ = \cos 90^\circ = 0$
45. (C) Except **wind**, all others are resources of water.

46. (C) Required angle = $30 \times 10 - \frac{11}{2} \times 10$
 $= 300^\circ - 55^\circ = 245^\circ$
 $= 360^\circ - 450^\circ = 115^\circ$

52. (A) As, 12
 $13 = 12 \times 1 + 1 \times 1$
 $30 = 13 \times 2 + 2 \times 2$
 $99 = 30 \times 3 + 3 \times 3$
 $412 = 99 \times 4 + 4 \times 4$
Similarly, 18
 $19 = 18 \times 1 + 1 \times 1$
 $42 = 19 \times 2 + 2 \times 2$
 $135 = 42 \times 3 + 3 \times 3$
 $556 = 135 \times 4 + 4 \times 4$

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| 56. (C) Even prime number = 2

∴ Required probability = $\frac{1}{6}$ | 77. (A) Indian penal code came into force from 6 october 1860. |
| 68. (D) Indian vulture (गिरध) | 79. (D) Number of ways of getting all the correct answer = $1 \times 3 = 1$
Number of ways all the incorrect answers = $4^3 - 1 = 63$ |
| 72. (C) As, currency of italy is Lira. Similarly, currency of Bangladesh is Taka. | 91. (B) Replace ' indicating' with 'indicate', as ' could be used to' is followed by 'Base form of verb (V ₁)'. |
| 73. (D) ATQ,
$3^{abc} \cdot 9^{ab} \cdot 27^{abc} = 1$
$\Rightarrow 3^{6(abc)} = 1$
$= 3^0 = 1$ | 92. (D) No error |

MEANINGS IN ALPHABETICAL ORDER

Word	Meaning in English	Meaning in Hindi
Bewildered	perplexed and confused; very puzzled	बेसुध
Muse	a person or personified force who is the source of inspiration for a creative artist.	काव्य प्रतिभा
Ponder	to think or consider especially quietly, soberly, and deeply	विचार करना
Dissonance	lack of harmony among musical notes.	मतभेद

HSSC MOCK TEST – 135 (ANSWER KEY)

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