

HSSC MOCK TEST - 142 (SOLUTION)

32. (A) Study of writing is called Palaeography while study of **Fishes** is called Ichthyology

34. (D) Monsoon is a wind, while all others are strong rotating storm.

35. (A) Only 12-144 is perfect square

36. (D) $\begin{array}{ccc} \text{H} & \text{G} & \text{F} \\ | & | & | \\ -1 & -1 & \end{array}$ $\begin{array}{ccc} \text{X} & \text{W} & \text{V} \\ | & | & | \\ -1 & -1 & \end{array}$

$\begin{array}{ccc} \text{N} & \text{M} & \text{L} \\ | & | & | \\ -1 & -1 & \end{array}$ $\begin{array}{ccc} \text{O} & \text{P} & \text{Q} \\ | & | & | \\ -1 & -1 & \end{array}$

37. (B) **ca/ccaa/cccaa/cccaaaa**

42. (B) Required number of choices
 $= {}^5C_4 \times {}^8C_6 + {}^5C_5 \times {}^8C_5$
 $= 140 + 56 = 196$

43. (D) Total selling price = $900 \times \frac{1}{2} + 700 \times \frac{2}{5}$
 $= 450 + 280 = ₹ 730$

\therefore His gain = $\frac{730 - 500}{500} \times 100 = 46\%$

44. (A) Relative speed = $\frac{(200 + 100)}{2 \times 100} \times 100$
 $= 9 \text{ km/hr}$

\therefore Speed of second train = $120 - 9$
 $= 111 \text{ km/hr}$

45. (D) Let the MRP = x
 ATQ,

$$\frac{x \times 85 \times 106}{100 \times 100} = 1081.20$$

$$\Rightarrow x = 1200$$

46. (B) $4^{11} \times 5^5 \times 3^2 \times 13^2$
 $= 2^{11} \times 2^{11} \times 5^5 \times 3^2 \times 13^2$
 \therefore Total number of prime factor
 $= 11 + 11 + 5 + 2 + 2 = 31$

47. (A) $(3 + 1)(3^2 + 1)(3^2 + 1)(3^8 + 1)(3^{16} + 1)$
 $\Rightarrow \frac{(3 - 1)(3 + 1)(3^2 + 1)(3^4 + 1)(3^8 + 1)(3^{16} + 1)}{3 - 1}$
 $\Rightarrow \frac{(3^2 - 1)(3^2 + 1)(3^4 + 1)(3^8 + 1)(3^{16} + 1)}{2}$

$$\Rightarrow \frac{(3^4 - 1)(3^4 + 1)(3^8 + 1)(3^{16} + 1)}{2}$$

$$\Rightarrow \frac{(3^8 - 1)(3^8 + 1)(3^{16} + 1)}{2}$$

$$\Rightarrow \frac{(3^{16} - 1)(3^{16} + 1)}{2} = \frac{3^{32} - 1}{2}$$

48. (C) $\sqrt{8} + \sqrt{8}$

49. (B) ATQ,

$$C - d = \frac{C+d}{5} = \frac{Cd}{3} = K$$

$$C - d = K \dots\dots\dots(i)$$

$$\text{and } C + d = 5k \dots\dots(ii)$$

From equation (i) and (ii)

$$C = 3K \text{ and } d = 2K$$

$$\therefore Cd = 3K = 3K \times 2K$$

$$\Rightarrow K = \frac{1}{2}$$

$$\therefore Cd = \frac{3}{2}$$

50. (C) $a^{m+n+o} = (m + n + o)^{m+n+o}$
 $\Rightarrow m + n + o = 9$
 $= (m + n + o)^3$

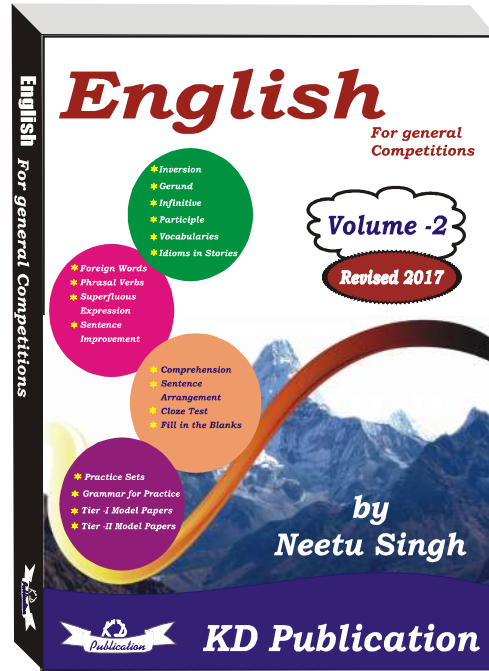
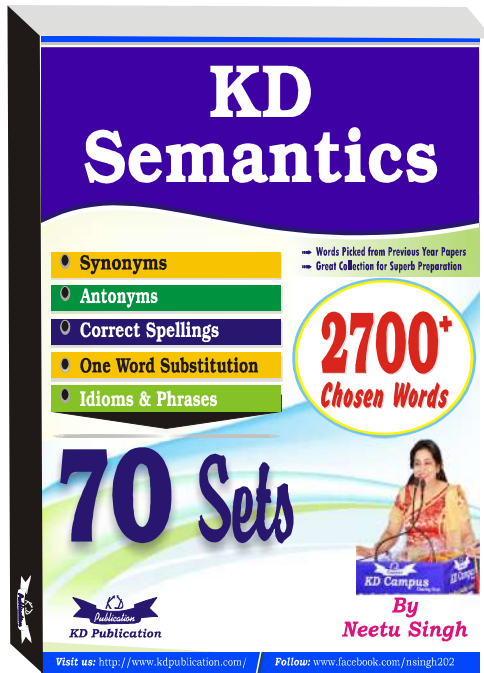
51. (A) $111 \frac{1}{2} + 111 \frac{1}{6} + 111 \frac{1}{12} + 111 \frac{1}{20} + 111 \frac{1}{30}$
 $= 111 + \left(\frac{1}{2} + \frac{1}{6} + \frac{1}{12} + \frac{1}{20} + 111 \frac{1}{30} \right)$
 $= 111 + \left(\frac{30 + 10 + 5 + 3 + 2}{60} \right)$
 $= 111 \frac{5}{6}$

91. (B) Use 'when' instead of 'than'.
 Scarcely . . . When

92. (C) 'Scenery' is the right word. 'Sceneries' is incorrect.

MEANINGS IN ALPHABETICAL ORDER

Word	Meaning in English	Meaning in Hindi
Trivial	of little value or importance	तुच्छ
Recede	go or move back or further away from a previous position	पीछे जाना
Heptathlete	an athlete who takes part in a heptathlon	
Plagiarism	the practice of tabing someone else's worth or ideas and passing them off as one's own	जुआ खेलना
Platitude	a commonplace remark	साधारण बात
Gesture	a movement of part of the body to express on idea or meaning	भाव से व्यक्त करना
Jibe	an insulting or mocking remark	ताना मारना



HSSC MOCK TEST – 142 (ANSWER KEY)

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