

**HSSC MOCK TEST - 144 (SOLUTION)**

3. (B) L.C.M of 9, 10 and 15 = 90

Now,

$$\begin{array}{r} 21 \\ 90 \overline{) 1936} \\ \underline{180} \\ 136 \\ \underline{90} \\ 46 \end{array}$$

$\therefore$  Required number =  $46 - 7 = 39$

25. (D) A.T.Q.,

$$5x + 5x + 4x = 14$$

$$\Rightarrow x = 1$$

$$\therefore s = \frac{5+5+4}{2} = 7$$

$$\begin{aligned} \therefore \text{Required Area} &= \sqrt{s(s-a)(s-b)(s-c)} \\ &= \sqrt{7(7-5)(7-5)(7-4)} \\ &= \sqrt{7 \times 2 \times 2 \times 3} \\ &= 2\sqrt{21} \text{ cm}^2. \end{aligned}$$

35. (A) Perimeter of land =  $\frac{3000}{7.50} = 400\text{m}$

$$2(5x + 3x) = 400$$

$$\Rightarrow 16x = 400$$

$$\Rightarrow x = 25$$

$$\therefore \text{Required difference} = 25(5-3) = 50\text{m}$$

50. (D) **aabab/aabab/aabab**

52. (A) Only **125** is a perfect cube.

53. (C) As,

$$\begin{array}{ccc} \text{C 3 F 6} & & \text{I 9 L 1 2} \\ \hline & & +6 \\ \hline \end{array}$$

Similarly,

$$\begin{array}{ccc} \text{K 11 N 14} & & \text{Q 17 T 20} \\ \hline & & +6 \\ \hline \end{array}$$

55. (B) Let present age of kamla =  $x$  years

ATQ,

$$x = (x - 6) \frac{5}{4}$$

$$\Rightarrow 4x = 5x - 30$$

$$\Rightarrow x = 30$$

$$\text{Her son's age} = 30 + \frac{1}{10} = 3 \text{ years}$$

60. (D) Total weight of 50 balls =  $5 \times 50 = 250 \text{ gm}$

$$\begin{aligned} \text{Total weight with bag} &= 51 \times 5.05 \\ &= 257.55 \end{aligned}$$

$$\begin{aligned} \text{Weight of bag} &= 257.55 - 250 \\ &= 7.55 \text{ gm} \end{aligned}$$

76. (C)  $(67^{67} + 67) = (67^{67} + 1) + 66$   
 $67^{67} + 1$  is completely divisible by 68.  
 Required remainder = 66

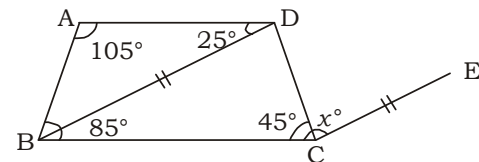
77. (C) A.T.Q.,  
 $a^2 + b^2 + c^2 = 2(a-b-c) - 3$   
 $\Rightarrow a^2 + b^2 + c^2 - 2a + 2b + 2c + 3 = 0$   
 $\Rightarrow (a-1)^2 + (b+1)^2 + (c+1)^2 = 0$   
 $\therefore a - b + c = 1 - (-1) - 1 = 1$

78. (D) ATQ,

$$\frac{\theta_1}{360^\circ} \times 2pr = \frac{\theta_2}{360^\circ} \times 2pR$$

$$\Rightarrow \frac{r}{R} = \frac{5}{4}$$

79. (B)



$$105^\circ + 85^\circ + 25^\circ + \angle BDC + 45^\circ = 360^\circ$$

$$\Rightarrow \angle BDC = 100^\circ$$

$\therefore \angle BDC = \angle DCE = x = 100^\circ$  (Alternate interior angle).

80. (D) 
$$\frac{\sqrt{192} - \frac{1}{2}\sqrt{48} - \sqrt{75}}{\sqrt{27} - \sqrt{12}}$$

$$= \frac{2 \times 8\sqrt{3} - 4\sqrt{3} - 2 \times \sqrt{3}}{2(3\sqrt{3} - 2\sqrt{3})}$$

$$= \frac{2\sqrt{3}}{2\sqrt{3}} = 1$$

91. (B) Replace 'done with' with 'done for'. 'Done for' means doomed to death or destruction.

92. (B) Replace 'had been' with 'was', as the second action is in past continuous.

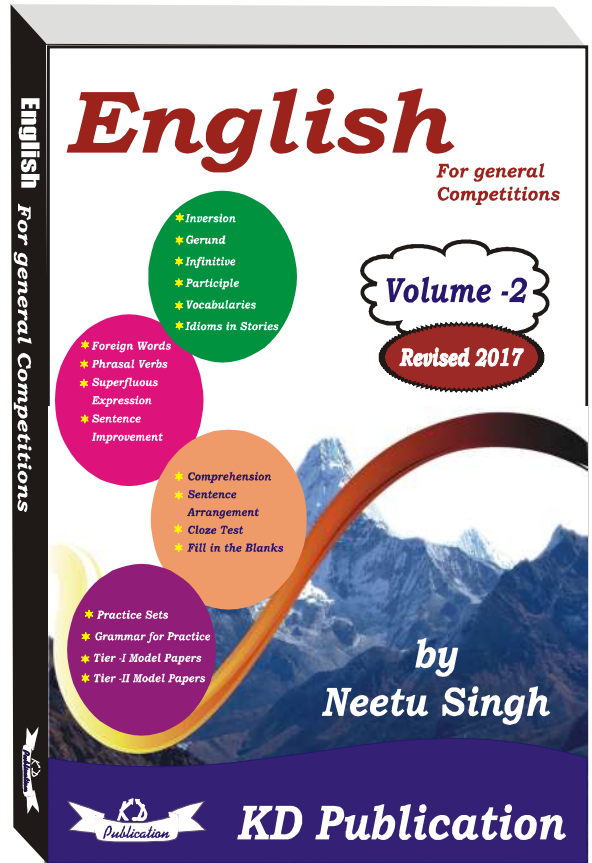
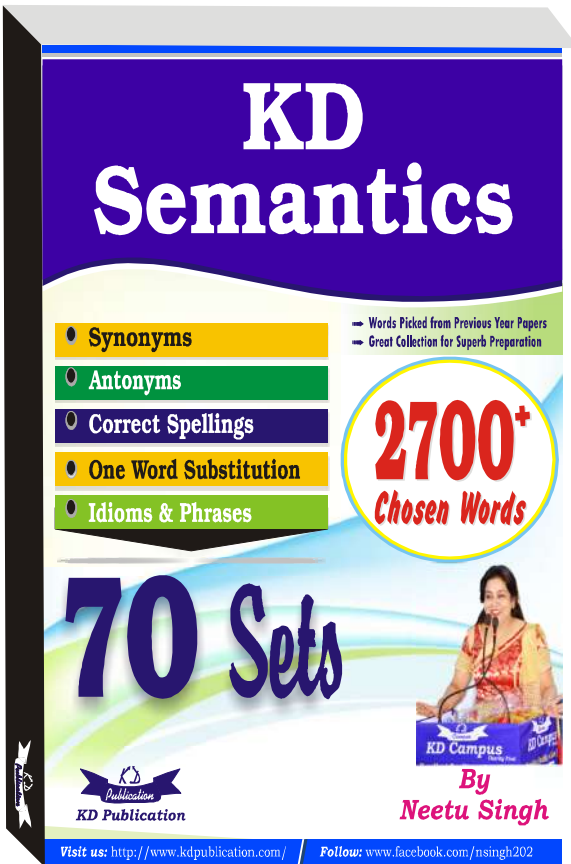
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## MEANINGS IN ALPHABETICAL ORDER

Word	Meaning in English	Meaning in Hindi
Approve of	officially agree to or accept something	स्वीकार करना
Set up	to plan or to arrange	स्थापित करना



## HSSC MOCK TEST – 144 (ANSWER KEY)

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