

SSC (GD)MOCK TEST – 15 (SOLUTION)

1. (C) As, Virus is the cause of disease.
Similarly, War is the cause of **distruction**.

2. (B) As, $(33)^2 - (30)^2 = 189$
Similarly, $(55)^2 - (54)^2 = 109$

3. (A) As, $(6)^3 + 6 = 222$
Similarly, $(8)^3 + 8 = 520$

4. (D) As,

Similarly,

5. (D) Except **Rangoon**, all others are the cities of India.

6. (C)

7. (D) Except **28 @ 5**, product of all others is 168.

8. (A) As, $3 + 6 + 1 + 8 + 3 + 7 = 28$
and, $4 + 2 + 2 + 1 + 6 + 5 = 20$
Similarly, $8 + 1 + 2 + 9 + 7 + 2 = 29$

9. (A) As, $16 \times 3 - 4 = 44$
and, $41 \times 3 - 6 = 117$
Similarly, $37 \times 3 - 5 = 106$

10. (A) 1st - 5
2nd - $5 + 1 = 6$
3rd - $6 + 5 = 11$
4th - $11 + 1 = 12$
5th - $11 + 6 = 17$
6th - $17 + 1 = 18$
7th - $11 + 12 = 23$

11. (A) $80 \times 16 + 4 - 9 \div 120$
After changing the signs,
 $80 + 16 \div 4 \times 9 - 120$
 $= 80 + 4 \times 9 - 120$
 $= 80 + 36 - 120 = -4$

12. (D)

13. (A) As, $\frac{8 \times 9}{2 \times 3} = 12$

and, $\frac{7 \times 6}{1 \times 7} = 6$

Similarly, $\frac{8 \times 4}{2 \times 2} = 8$

14. (A) Total marks scored by 5 students
 $= 38 \times 5 = 190$

Let marks scored by E = x

\therefore marks scored by C = x + 6

and, marks scored by A = x + 9

marks scored by B = x + x + 6 = 2x + 6

marks scored by D = 112 - B

$= 112 - 2x - 6 = 106 - 2x$

\therefore Total marks = x + 9 + 2x + 6 + 106 - 2x + x + 6 + x = 190

$\Rightarrow 3x + 127 = 190$

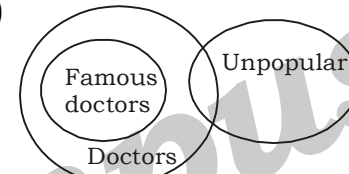
$\Rightarrow 3x = 63$

$\Rightarrow x = 21$

\therefore Marks scored by A = 29 + 9 = **30**

15. (C)

16. (B)



17. (A) $\frac{7}{\times 3+4}, \frac{25}{\times 4+5}, \frac{105}{\times 5+6}, \frac{531}{\times 6+7}, \frac{3193}{\times 7+8}$

18. (B) $\frac{1}{\times 4+1}, \frac{5}{\times 3-1}, \frac{14}{\times 4+1}, \frac{57}{\times 3-1}, \frac{170}{\times 3-1}, \frac{681}{\times 4+1}$

19. (A)

20. (B)

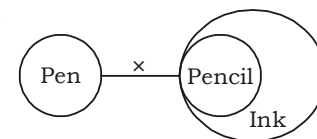
21. (B)

22. (B)

23. (D)

24. (C)

25. (A)



\therefore Only conclusion I follows.

51. (B) $\frac{3x}{2y} = \frac{21}{22} \Rightarrow \frac{x}{y} = \frac{7}{11} \Rightarrow \frac{x}{7} = \frac{y}{11} = k$

$\Rightarrow x = 7k, y = 11k$

and, $4x + 5y = 83$

$4(7k) + 5(11k) = 83$

$\Rightarrow k = 1$

then, $y - x = 11k - 7k = 4k = 4 \times 1 = 4$

52. (B) ATQ,
 $x^2 + 6x + 8 = x^2 + 4x + 2x + 8$
 $= (x + 2)(x + 4)$
 and, $x^2 + 3x + 2 = x^2 + 2x + x + 2 = (x + 2)(x + 1)$
 First expression \times second expression =
 HCF \times LCM
 $\Rightarrow (x^2 + 3x + 2) \times$ second expression =
 $(x^2 + 6x + 8) \times (x + 1) (x + 1)$
 $\Rightarrow (x + 2)(x + 1) \times SE = (x + 2)(x + 4)(x + 1)$
 $(x + 1)$
 $\Rightarrow SE = (x + 4)(x + 1) = x^2 + 5x + 4$

53. (C) $n(A \cup B) = n(A) + n(B) - n(A \cap B)$,
 $= 40 + 26 - 16 = 50$

54. (C) $P = 99$ (given)
 $\therefore P(P^2 + 3P + 3) = P^3 + 3P^2 + 3P$
 $= P^3 + 3P^2 + 3P + 1 - 1$
 $= (P + 1)^3 - 1 = (99 + 1)^3 - 1$
 $= (100)^3 - 1 = 999999$

55. (D) ATQ,
 $(2 + \sqrt{3}) a = (2 - \sqrt{3}) b = 1$

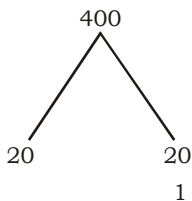
$$a = \frac{1}{2 + \sqrt{3}} \text{ and } \frac{1}{a} = 2 + \sqrt{3}$$

Similarly, $\frac{1}{b} = 2 - \sqrt{3}$

$$\frac{1}{a} + \frac{1}{b} = 2 + \sqrt{3} + 2 - \sqrt{3} = 4$$

56. (B) Let the angle are A and B ($A > B$)
 $A + B = 135^\circ$ (i)
 and, $A - B = \frac{\theta}{12} \times \frac{180}{\theta} = A - B = 15^\circ$... (ii)
 On solving equation (i) and (ii)
 So, $A = 75^\circ$
 $B = 60^\circ$

57. (C) Let $5\% = \frac{1}{20}$ amount = 400



$$41 \rightarrow 328$$

$$1 \rightarrow 8$$

$$400 \rightarrow 3200$$

58. (B) Marked price = $(7710 + 1285) = 8995$
 Discount = $x\%$
 then, $x\%$ of 8995 = 1285

$$\Rightarrow \frac{8995 \times x}{100} = 1285$$

$$\Rightarrow x = \frac{100}{7} \%$$

$$\Rightarrow x = 14 \frac{2}{7} \%$$

59. (B) $M_1 D_1 = M_2 D_2$
 $9 \times 20 = M_2 \times 15$

$$M_2 = \frac{9 \times 20}{15} = 12 \text{ pipes}$$

60. (A) Let the distance travel on foot = x
 ATQ,

$$\frac{x}{8} + \frac{80 - x}{16} = 7$$

$$\Rightarrow 16x - 8x + 640 = 896$$

$$\Rightarrow x = 32$$

$$\therefore \text{Distance travel and foot} = 32 \text{ km}$$

61. (C) Remaining work = $1 - \frac{1}{8} = \frac{7}{8}$

$$(A + B)\text{'s 1 day work} = \frac{1}{6} + \frac{1}{12} = \frac{2+1}{12} = \frac{1}{4}$$

$$\therefore \text{Time taken in doing } \frac{7}{8} \text{ part of work}$$

$$= \frac{7}{8} \times 4 = \frac{7}{2} = 3 \frac{1}{2} \text{ days}$$

62. (C) Required distance = LCM of 63, 70 and 77 is
 LCM = 6930

63. (B) In 20 liter of mixture

$$\text{Alcohol} = \frac{20 \times 20}{100} = 4 \text{ liter}$$

$$\text{Water} = 20 - 4 = 16 \text{ liter}$$

$$\text{On adding 4 liter water} = 16 + 4 = 20 \text{ liter}$$

$$\text{Mixture now} = 24 \text{ liter}$$

$$\text{Required } \% = \frac{4}{24} \times 100 = 16 \frac{2}{3} \%$$

64. (B) 4% decrease

$$\begin{array}{r} 25 \quad 24 \\ \underline{25} \quad \underline{24} \\ 625 \quad 576 \\ \downarrow \times 100 \quad \downarrow \times 100 \\ 62500 \quad 57600 \end{array}$$

65. (A) ATQ,
 $a + 8d - a - 3d = 53 - 28$
 $\Rightarrow 5d = 25$
 $\Rightarrow d = 5$
 $\Rightarrow a = 13$
 Hence, $T_{13} = a + 14d$
 $= 13 + 14 \times 5 = 83$

66. (C) ATQ,

$$\text{Required ratio} = \frac{12 \times (100 - 25)}{100}$$

$$\therefore \frac{14 \times (100 - 42.85)}{100} : \frac{15 \times (100 - 33.33)}{100}$$

$$= 12 \times \frac{3}{4} : 14 \times \frac{4}{7} : 15 \times \frac{2}{3}$$

$$= 9 : 8 : 10$$

67. (D) ATQ,

$$\text{Area of 4 walls} = 2h(l + b) = 600$$

$$\Rightarrow l + b = \frac{600}{12} = 50$$

68. (A) ATQ,

$$\frac{1+x}{\sqrt{x} + \frac{1}{\sqrt{x}}} - \frac{\sqrt{x} + \frac{1}{\sqrt{x}}}{1+x} + \frac{1}{\sqrt{x}}$$

$$= \frac{(1+x)\sqrt{x}}{x+1} - \frac{x+1}{(x+1)\sqrt{x}} + \frac{1}{\sqrt{x}}$$

$$= \sqrt{x} - \frac{1}{\sqrt{x}} + \frac{1}{\sqrt{x}} = \sqrt{x}$$

69. (B) A.T.Q.,

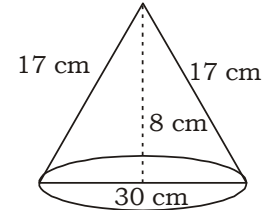
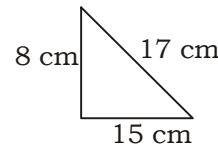
$$\text{Initially share of each person} = \frac{1}{9}$$

$$\text{Now, share of each person} = \frac{1}{8}$$

$$\text{then, increase} = \frac{1}{8} - \frac{1}{9} = \frac{1}{72}$$

$$\therefore \text{Required increment} = \frac{1}{\frac{72}{1}} \times 100 = 12 \frac{1}{2} \%$$

70. (A) A.T.Q.,



$$\therefore \text{Required volume} = \frac{1}{3} \pi \times 15 \times 15 \times 8$$

$$= 1885.7 \text{ cm}^2$$

71. (C) A.T.Q.,

$$\text{Volume of the water displaced} = 5 \times 4 \times 0.006 = 0.12 \text{ cm}^3$$

$$\therefore \text{Mass of the man} = 0.12 \times 1000 = 120 \text{ kg}$$

72. (B) $\frac{1}{3} : \frac{1}{6} = 2 : 1$

73. (B) Weight of skin = $\frac{1}{10}$ Part of 16% of protien

$$= \left(\frac{1}{10} \times 16 \right) \% = 1.6\%$$

74. (A) Required quantity of water = 70% of 50 kg

$$= \frac{70}{100} \times 50 = 35 \text{ kg}$$

75. (A) Required part = $1 - \left(\frac{1}{3} + \frac{1}{10} + \frac{1}{6} \right) = \frac{2}{5}$

Note:- If your opinion differs regarding any answer, please message the mock

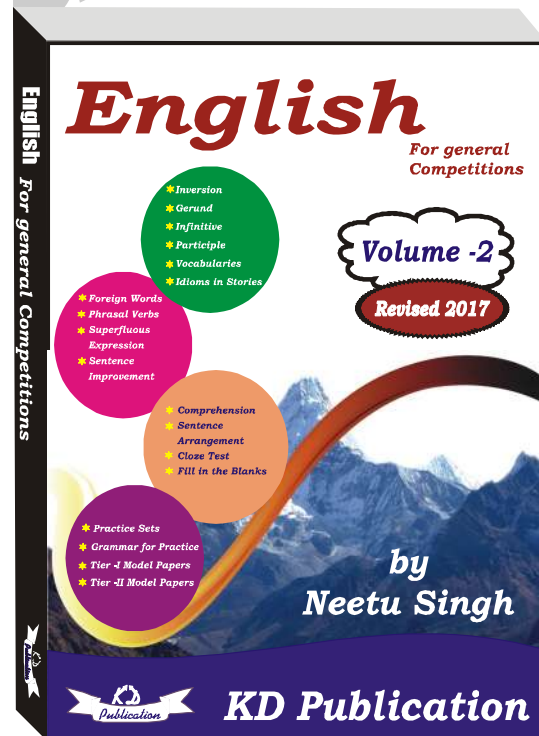
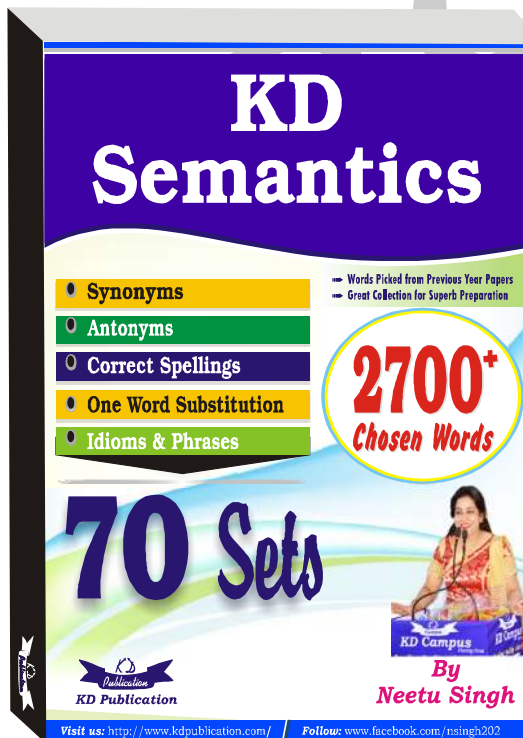
Note:- Whatsapp with Mock Test No. and Question No. at 7053606571 for any of the doubts.

Note:- If you face any problem regarding result or marks scored, please

76. (C) Replace 'to' with 'from'.
Escape = an act of breaking free from confinement.
77. (D) No error.
98. (B) In the given context, 'the' cannot be used before university.
99. (B) 'between' is used to compare two groups or individuals. 'against' is used to compare the same class or group.
100. (C) Fall through = come to nothing; fail.

MEANINGS IN ALPHABETICAL ORDER

Word	Meaning in English	Meaning in Hindi
Augment	Make (something) greater by adding to it	बढाना
Verdure	lush green vegetation	हरियाली
Dote	Be extremely and critically fond of	स्नेह करना
Aversion	A strong dislike	घृणा करना
Noisome	Having an extremely offensive smell	दुर्गंध
Fetid	have a bad smell	बदबूदार
Pestilent	destructive to life; deadly	विनाशक
Daintly	small, delicate and often moving in a careful way	सुहावना
Apprehensive	anxious or fearful	भयभीत
Assonance	resemblance fo sound	स्वरो की एकता



SSC (GD) MOCK TEST - 15 (ANSWER KEY)

Answer key

1. (C)	11. (A)	21. (B)	31. (D)	41. (B)	51. (B)	61. (C)	71. (C)
2. (B)	12. (D)	22. (B)	32. (A)	42. (A)	52. (B)	62. (C)	72. (B)
3. (A)	13. (A)	23. (D)	33. (B)	43. (D)	53. (C)	63. (B)	73. (B)
4. (D)	14. (A)	24. (C)	34. (C)	44. (A)	54. (C)	64. (B)	74. (A)
5. (D)	15. (C)	25. (A)	35. (A)	45. (B)	55. (D)	65. (A)	75. (A)
6. (C)	16. (B)	26. (A)	36. (C)	46. (D)	56. (B)	66. (C)	
7. (D)	17. (A)	27. (C)	37. (B)	47. (D)	57. (C)	67. (D)	
8. (A)	18. (B)	28. (C)	38. (B)	48. (D)	58. (B)	68. (A)	
9. (A)	19. (A)	29. (D)	39. (C)	49. (C)	59. (B)	69. (B)	
10. (A)	20. (B)	30. (A)	40. (A)	50. (A)	60. (A)	70. (A)	

Hindi

English

76. (D)	85. (C)	94. (C)	76. (C)	86. (A)	96. (A)
77. (C)	86. (A)	95. (A)	77. (A)	87. (C)	97. (B)
78. (C)	87. (A)	96. (A)	78. (D)	88. (B)	98. (B)
79. (B)	88. (C)	97. (C)	79. (D)	89. (D)	99. (B)
80. (D)	89. (D)	98. (A)	80. (D)	90. (A)	100. (C)
81. (C)	90. (D)	99. (C)	81. (A)	91. (B)	
82. (A)	91. (B)	100. (C)	82. (A)	92. (B)	
83. (B)	92. (C)		83. (B)	93. (C)	
84. (C)	93. (B)		84. (A)	94. (A)	
			85. (C)	95. (C)	

