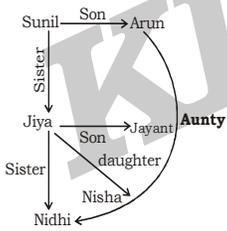
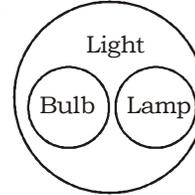


SSC (GD)MOCK TEST – 10 (SOLUTION)

- (C) Total number of IITs in India is 23 and the total number of NITs in India is **31**.
- (A)
- (A) As, $36 - 81 \Rightarrow 36 + 3^2 + 6^2 = 81$
Similarly, $54 - 95 \Rightarrow 54 + 5^2 + 4^2 = 95$
- (B) Sushma Sawraj is the minister of external affairs and Parkash javadekar is the minister of **Human resource development**.
- (D) Except **Hydrabad**, all others are the world heritage cities.
- (D) Number of heritage sites in **Bihar** is 2. While in all others, the total number of heritage site is 3.
- (B) Excerpt **CFIN**, in all other is added next letter to get the next one letter.
- (C) As, $9 + 12 - 10 = 11$
and, $12 + 16 - 17 = 11$
Similarly,
 $6 + 11 - 6 = 11$
- (A) As, $\sqrt{9}, \sqrt{16}, \sqrt{4} > \sqrt{25}$
and, $\sqrt{9}, \sqrt{4}, \sqrt{1} > \sqrt{16}$
Similalry,
 $\sqrt{49}, \sqrt{36}, \sqrt{25} > \sqrt{64}$
- (A) $\begin{array}{cccccc} 26 & 34 & 41 & 46 & 56 \\ \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ +2+6 & +3+4 & +4+1 & +4+6 & \end{array}$
- (A) 

Sunil - Son -> Arun
Sister -> Jiya - Son -> Jayant - Aunty
Sister -> Nisha - daughter -> Nidhi
- (D) Let the prestn age of Vipin = x years
 \therefore Present age of Vipin's father = $3x$
ATQ,
 $3(3x - 6) = 72$
 $\Rightarrow 9x = 90$
 $\Rightarrow x = 10$
 \therefore Present age of Vipin = **10 years**
- (C) As, $8 \times 7 - 8 - 7 = 41$
and, $9 \times 8 - 9 - 8 = 55$
Similarly,
 $7 \times 6 - 7 - 6 = 29$
- (B) $54 \div 6 + 3 > 6 + 3$
 $\Rightarrow 12 > 9$
- (C)

16. (A)



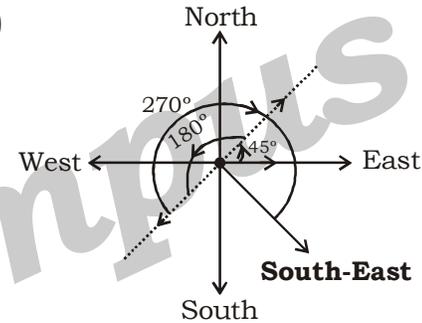
17. (D) $\begin{array}{cccccc} 8, & 14, & 28, & 32, & 64, & 66 \\ \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ +6 & \times 2 & +4 & \times 2 & +2 & \end{array}$

18. (A) $(4)^2, (4 + 4)^2, (8 + 4)^2, (12 + 8)^2, (20 + 8)^2$
 $= 784$

19. (C)

20. (C) As, $8 \times 7 - 7 \times 2 = 42$
and, $7 \times 6 - 6 \times 2 = 30$
Similarly,
 $9 \times 8 - 8 \times 2 = 56$

21. (B)



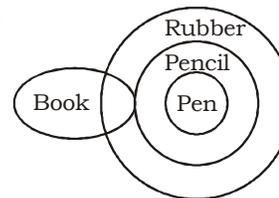
Hence, his face is in **South-East** Direction.

22. (B)

23. (C)

24. (B) Total number of triangles = **16**

25. (A)



Hence, only conclusion I follows.

51. (C) Speed of train A

$$= \frac{210 + 230}{22} = \frac{440}{22} = 20 \text{ m/s}$$

Ratio of speed of train B and train A = 5 : 4

$$\text{Speed of train B} = \frac{5}{4} \times 20 = 25 \text{ m/sec}$$

$$= \frac{25 \times 18}{5} = 90 \text{ km/hr}$$

52. (C) Given that,

$$x^4 + \frac{1}{x^4} = 727$$

$$\Rightarrow x^4 + \frac{1}{x^4} + 2 = 727 + 2$$

$$\Rightarrow \left(x^2 + \frac{1}{x^2}\right)^2 = 729 [\because (a+b)^2 = a^2 + b^2 + 2ab]$$

$$\Rightarrow x^2 + \frac{1}{x^2} = 27$$

and, $\left(x - \frac{1}{x}\right)^2 = x^2 + \frac{1}{x^2} - 2$
 $[\because (a-b)^2 = a^2 + b^2 - 2ab]$

$$\Rightarrow \left(x - \frac{1}{x}\right) = \sqrt{27 - 2} = 5$$

Now, $\left(x - \frac{1}{x}\right)^3 = x^3 - \frac{1}{x^3} - 3\left(x - \frac{1}{x}\right)$

$$[\because (a-b)^3 = a^3 - b^3 - 3ab(a-b)]$$

$$\Rightarrow (5)^3 = x^3 - \frac{1}{x^3} - 3(5)$$

$$\therefore x^3 - \frac{1}{x^3} = 125 + 15 = 140$$

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

	CP	SP
I	(5)	(4) _{x3}

II	(2)	(3) _{x5}
----	-----	-------------------

(CP of first item = SP of second item)

I	15	12
II	10	15

Total 25 27

Now,

$$27 \text{ units} = 5400$$

$$1 \text{ units} = 5400/27 = 200$$

$$\text{Profit} = \text{SP} - \text{CP} = 27 - 25 = 2$$

$$\text{Required answer} = 2 \times 200 = ₹400$$

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

	Parveen	Ankit
Work efficiency	4	3

$$\therefore \text{Total work} = 4 \times 40 = 160 \text{ units}$$

As given, they follow this pattern to complete the work

$$3 + 4 + 4 = 11 \text{ units in 3 days.}$$

$$\therefore 14 \times 11 = 154 \text{ units in } 3 \times 14 = 42 \text{ days}$$

Now, next day Ankit will come to work and then Parveen

$$\text{Work} \rightarrow 154 + 3 = 157 \text{ units}$$

$$\text{Now work left} = 160 - 157 = 3 \text{ units}$$

Time taken by Parveen to complete 3 unit

$$= \frac{3}{4} \text{ days}$$

$$\therefore \text{Total number of days} = 43 + \frac{3}{4} = 43\frac{3}{4} \text{ days}$$

55. (B) Given that,

$x = 2$ is the root of $f(x)$.

$\therefore f(x)$ is divisible by $(x - 2)$.

$$\frac{2x^3 - x^2 - 5x - 2}{x - 2} = 2x^2 + 3x + 1$$

Now, find root of quadratic equation

$$2x^2 + 3x + 1$$

$$= 2x^2 + 2x + x + 1$$

$$= 2x(x + 1) + 1(x + 1)$$

$$= (2x + 1)(x + 1)$$

\therefore Required roots are $\left(-\frac{1}{2}, -1\right)$

56. (D) LCM of 2, 3, 6 and 11 = 66

$$66 \overline{)999999} (15151$$

$$\underline{66}$$

$$\underline{339}$$

$$\underline{330}$$

$$\underline{99}$$

$$\underline{66}$$

$$\underline{339}$$

$$\underline{330}$$

$$\underline{99}$$

$$\underline{66}$$

Remainder $\rightarrow 33$

$$\text{Required number} = 999999 - 33 + 1 = 999967$$

57. (A) A.T.Q.,

$$\frac{16 \times 3 + 18x + 21 \times 5 + 42 \times 2}{10 + x} = 21$$

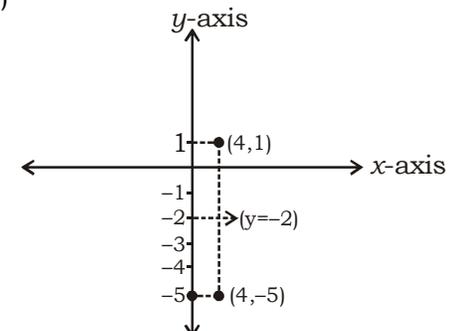
$$\Rightarrow 237 + 18x = 21(10 + x)$$

$$\Rightarrow 21x - 18x = 237 - 210$$

$$\Rightarrow 3x = 27$$

$$\Rightarrow x = 9$$

58. (C)



□ Reflection of $(4, -5)$ in the line $(y = -2) = (4, 1)$

59. (A) Let the speed of boat be x m/min.
Let the speed of stream be y m/min.

A.T.Q.,
 $x + y = 250$

$$\frac{x - y = 200}{2x = 450}$$

$$x = 225 \text{ m/min.}$$

$$\therefore \text{In km/hour} = 225 \times \frac{60}{1000} = 13.5 \text{ km/hour}$$

60. (B) M.P. of Table = ₹1200
After discount

$$= 1200 \times \frac{100 - 15}{100} \times \frac{100 - 33\frac{1}{3}}{100} = ₹680$$

After transportation charge
= ₹680 + ₹70 = ₹750

Now, SP = ₹1000

∴ Profit%

$$= \frac{1000 - 750}{750} \times 100 = \frac{100}{3} = 33\frac{1}{3}\%$$

61. (C) ATQ,

H.C.F. = 8

∴ Let the numbers are $8x$ and $8y$ respectively.

L.C.M $\Rightarrow 8xy = 96$ (given)

$$\Rightarrow xy = \frac{96}{8} = 12$$

Also given,

$$8x + 8y = 56$$

$$x + y = 7.$$

∴ Sum of reciprocal of numbers

$$= \frac{1}{8x} + \frac{1}{8y} = \frac{x+y}{8(xy)}$$

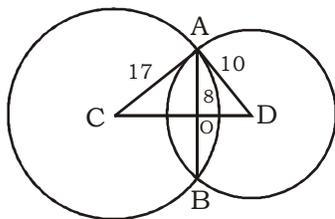
$$= \frac{7}{8(12)} = \frac{7}{96}$$

62. (C) Required H.C.F of fraction

$$= \frac{\text{H.C.F of Numerator}}{\text{L.C.M of Denominator}}$$

$$= \frac{3}{1400}$$

63. (B)



$$AO = \frac{AB}{2} = 8 \text{ cm.}$$

In $\triangle AOC$ and $\triangle AOD$

$$CD = CO + OD.$$

and,

$$CO = \sqrt{(17)^2 - (10)^2} = \sqrt{289 - 100}$$

$$= \sqrt{189} = 15 \text{ cm}$$

$$OD = \sqrt{(10)^2 - (8)^2} = \sqrt{100 - 64}$$

$$= \sqrt{36} = 6 \text{ cm}$$

$$\square CD = 15 + 6 = 21 \text{ cm}$$

64. (B) Total area to be painted = $2(16 + 9) \times 8$
= $2(16 + 9) \times 8$
= 400 m^2
Required amount = 400×8.5
= ₹3400

65. (C) ATQ,

$$\frac{60}{100}(x - y) = \frac{50}{100}(x + y)$$

$$\Rightarrow 6x - 6y = 5x + 5y$$

$$\Rightarrow x = 11y$$

$$\text{Required Percentage} = \frac{1}{11} \times 100$$

$$= 9\frac{1}{11}\%$$

66. (A) $x(x + y + z) = 17$... (i)

$$y(x + y + z) = 25$$
 ... (ii)

$$z(x + y + z) = 154$$
 ... (iii)

Adding equation (i), (ii) and (iii),

$$(x + y + z)(x + y + z) = 17 + 25 + 154$$

$$\Rightarrow (x + y + z)^2 = 196$$

$$\Rightarrow x + y + z = 14$$
 ... (iv)

putting equation (iv) in equation (ii),

$$y = \frac{25}{14}$$

67. (D) Let the amount invested at 3% rate of interest be x .

Now, ATQ.

$$\frac{x \times 3 \times 1}{100} = \frac{(60000 - x) \times 7 \times 1}{100}$$

$$\Rightarrow 3x = 420000 - 7x$$

$$\Rightarrow x = 42000$$

$$\text{Interest earned} = \frac{42000 \times 3 \times 1}{100} = ₹1260$$

Total interest earned from both investment = $1260 \times 2 = ₹2520$

Average R.O.I is

$$2520 = \frac{60000 \times R \times 1}{100}$$

$$\Rightarrow R = 4.2\%$$

68. (C) Ratio of speed of A, B and C is

$$\begin{array}{ccc} A & B & C \\ (2 : 1) & \leftarrow & 3 \\ \hline & (3 : 1) & \\ 6 : & 3 : & 1 \leftarrow \text{Ratio of speed} \end{array}$$

$$1 : 2 : 6 \leftarrow \text{Ratio of time}$$

C covers 6 units in 96 minutes

$$1 \text{ unit} \rightarrow \frac{90}{6} = 15$$

\therefore Required time = 15 minutes.

69. (A) Let the unit digit and tens digit of number be x and y .

$$\text{Number} = 10y + x$$

A.T.Q

$$10x + y = 10y + x + 27$$

$$\Rightarrow x - y = 3 \quad \dots(i)$$

$$\Rightarrow x + y = 9 \quad \dots(ii) \quad \dots(\text{given})$$

From eq. (i) and eq. (ii), we get

$$x = 6$$

$$\text{and, } y = 3$$

$$\therefore \text{Required number} = 10(3) + 6 = 36$$

70. (C) L.C.M of 63 and 36 = 252

$$\text{H.C.F of 63 and 36} = 9$$

$$\text{Required product} = 252 \times 9 = 2268$$

71. (A) $5 \times 0.5 \times 0.05 \times 0.005 \times 0.0005 \times 50$

$$= \left(\frac{25}{1000}\right)^3 = (0.025)^3$$

72. (B) Required difference = $7000 - 5500 = 1500$

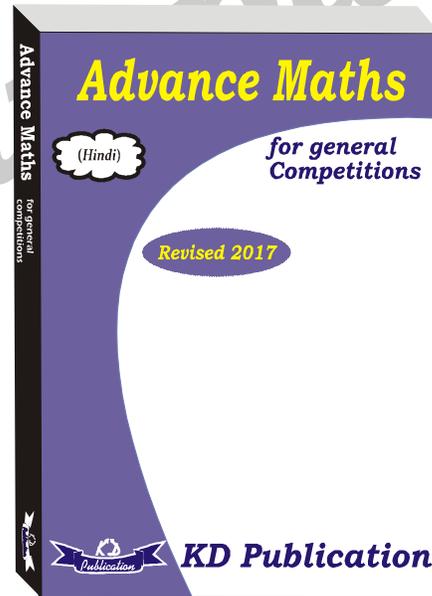
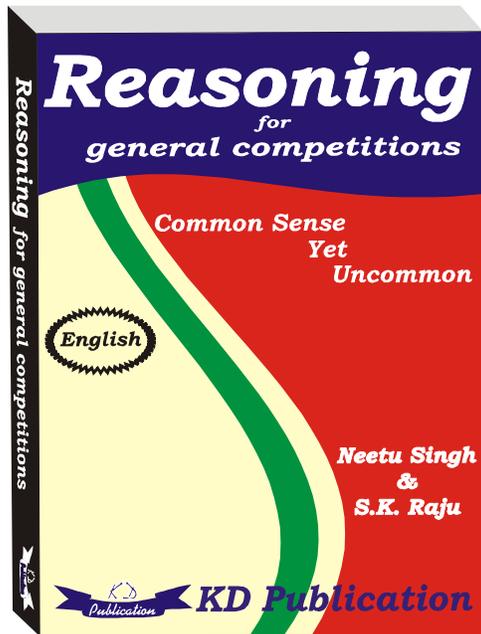
73. (A) Required increment = $\frac{10}{40} \times 100 = 25\%$

74. (D) Required difference

$$= \left(\frac{70+75+30+55+65}{5} - \frac{40+50+55+25+35}{5}\right) \times 100$$

$$= 100 \times \left(\frac{295 - 205}{5}\right) = 1800$$

75. (C) Required year Febuary and March.



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

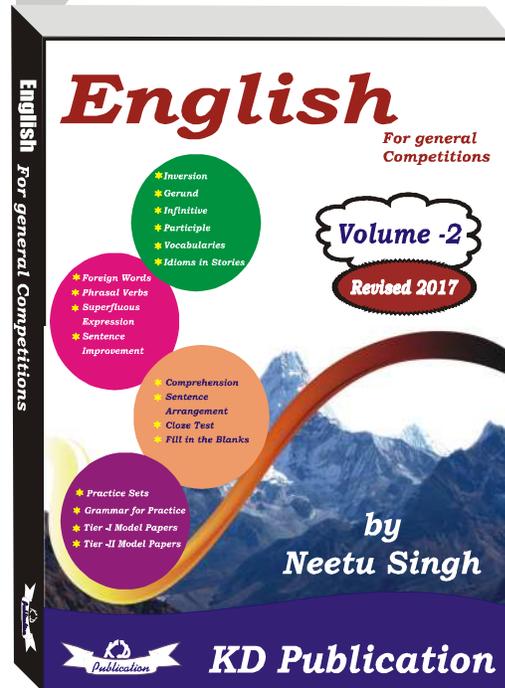
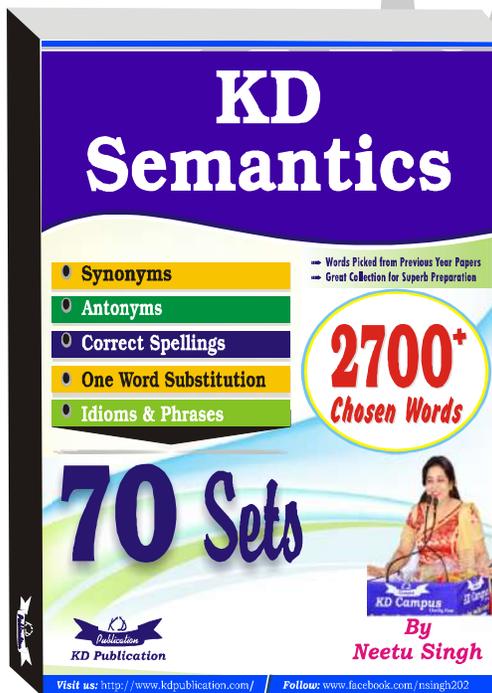
Note:- Whatsapp with Mock Test No. and Question No. at 7053606571 for any of the

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

76. (C) Here possessive case is not required. So '3 o'clock train' is the correct usage.
77. (B) Replace 'have' with 'has', as the subject 'a period of six years' is singular.
78. (B) Replace 'was' with 'is' as it is a universal truth.
98. (C) 'Word' is 'a peice of information or news'. Therefore 'sent word' is a correct usage.
99. (C) Correct compound conjunction is 'had.... would have'. Therefore 'shall not be' should be replaced by 'would not have been'.
100. (B) Look for – try to find
Look up – search for information
Look in – make a short visit
Look to – be careful of or about something

MEANINGS IN ALPHABETICAL ORDER

Word	Meaning in English	Meaning in Hindi
Pretentious	attempting to impress by affective greater importance	मिथ्याभिवानी
Abrasion	process of scraping or wearing something away	घर्षण
Infirm	not physically or mentally strong	कमजोर
Lull	a temporary interval or lack of activity	मंदी
Mutiny	an open rebellion against authorities	क्रांति
Delude	make (someone) believe something is true	धोखा
Tepid	only slightly warm; showing little enthusiasm	गुनगुना, निराश
Reconnoiter	make an military observation	पता लगाना
Scalding	very hot, burning	तीखा, गरम



SSC (GD) MOCK TEST - 10 (ANSWER KEY)

Answer key

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

Hindi

English

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

