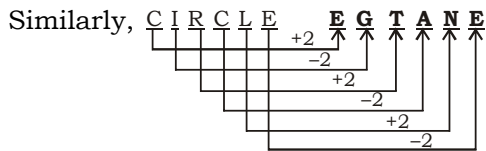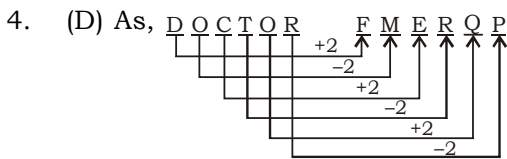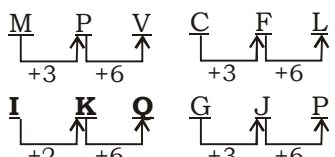# SSC (GD) MOCK TEST – 4 (SOLUTION)

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, $16 × 3 – 4 = 44$
   and, $41 × 3 – 6 = 117$
   Similarly, $37 × 3 – 5 = 106$

10. (A) $I^{st} – 5$
    $2^{nd} – 5 + 1 = 6$
    $3^{rd} – 6 + 5 = 11$
    $4^{th} – 11 + 1 = 12$
    $5^{th} – 11 + 6 = 17$
    $6^{th} – 17 + 1 = 18$
    $7^{th} – 11 + 12 =$ **23**

11. (A) $80 × 16 + 4 – 9 ÷ 120$
    After changing the signs.
    according to questions,
    $80 + 16 ÷ 4 × 9 – 120$
    $= 80 + 4 × 9 – 120$
    $= 80 + 36 – 120 =$ **– 4**

12. (D)

13. (A) As, $\dfrac{8 × 9}{2 × 3} = 12$
    and, $\dfrac{7 × 6}{1 × 7} = 6$
    Similarly, $\dfrac{8 × 4}{2 × 2} =$ **8**

14. (A) Total marks scored by 5 students
    $= 38 × 5 = 190$
    Let marks scored by E $= x$
    ∴ 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 $= 112 – B$
    $= 112 – 2x – 6 = 106 – 2x$
    ∴ Total marks $= x + 9 + 2x + 6 + 106 – 2x + x + 6 + x = 190$
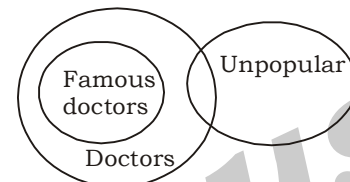 $⇒ 3x + 127 = 190$
    $⇒ 3x = 63$
    $⇒ x = 21$
    ∴ Marks scored by A $= 29 + 9 =$ **30**

15. (C)

16. (B)

17. (A)

18. (B)

19. (A)

20. (B)
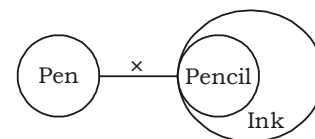
21. (B)

22. (B)

23. (D)

24. (C)

25. (A)

   ∴ Only conclusion I follows.

51. (A) ATQ,
    Required S.P.
    $= 480 × \dfrac{195}{100} × \dfrac{65}{100} = ₹608.4$

52. (A) ATQ,
    $\dfrac{34 + x}{114 + x} = \dfrac{52 + x}{164 + x}$
    $⇒ x = 11$
    Or,
    From option A $⇒ \dfrac{34 + 11}{114 + 11} = \dfrac{9}{25} = \dfrac{52 + 11}{164 + 11}$

Option B $\Rightarrow \dfrac{34+12}{114+12} = \dfrac{23}{63} \neq \dfrac{52+12}{164+12}$

Option C $\Rightarrow \dfrac{34+9}{114+9} = \dfrac{43}{123} \neq \dfrac{52+9}{164+9}$

Option D $\Rightarrow \dfrac{34+16}{114+16} = \dfrac{5}{13} \neq \dfrac{52+16}{164+16}$

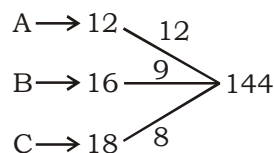53. (A) ATQ,
$a + 8d - a - 3d = 53 - 28$
$\Rightarrow 5d = 25$
$\Rightarrow d = 5$
$\Rightarrow a = 13$
Hence, $T_{13} = a + 14d$
$= 13 + 14 \times 5 = 83$

54. (B) ATQ,

A $\longrightarrow$ 12 $\diagdown$ 12
B $\longrightarrow$ 16 $-$ 9 $\rangle$ 144
C $\longrightarrow$ 18 $\diagup$ 8

Hence, Required days

$= \dfrac{144 - 3(12+9+8)}{8} = 7\dfrac{1}{8}$ days

55. (A) ATQ,

$\dfrac{A}{B} = \dfrac{5}{11}$ and $\dfrac{C}{B} = \dfrac{9}{16}$

Then, $\dfrac{A}{B} \times \dfrac{B}{C} = \dfrac{5}{11} \times \dfrac{16}{9} = \dfrac{80}{99}$

Hence, C : A = 99 : 80

56. (B) Let n be the largest number.
ATQ,
$n + n - 2 + n - 4 + n - 6 + n - 8 + n - 10$
$= 80 \times 6$
$\Rightarrow n = 85$
Hence, largest number = 85

57. (B) Let the distance
ATQ,

$\dfrac{x+1}{14} = \dfrac{x}{12} \Rightarrow x = 6$ kms

58. (C) Let the fraction = x
ATQ,

$x + \dfrac{5}{x} = \dfrac{14}{3}$

$\Rightarrow 3x^2 + 15 = 14x$
$\Rightarrow (3x - 5)(x - 3) = 0$

$\Rightarrow x = \dfrac{5}{3}$ or 3

But according to option, $\dfrac{5}{3}$ is correct.

59. (C) ATQ,

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

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

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

$= 9 : 8 : 10$

60. (C) ATQ,
Distance travelled by first runner till 8 : 30 am

$= 12 \times \dfrac{5}{2} = 30$ kms

Hence, Required time

$= 8 : 30 + \dfrac{30}{15 - 12}$ hours = 6 : 30 pm

61. (C) ATQ,
$x = 7 - 2\sqrt{12}$

$\Rightarrow \sqrt{x} = (\sqrt{3})^2 + (\sqrt{4})^2 - 2 \times \sqrt{3} \times \sqrt{4})^{1/2}$
$= (2 - \sqrt{3})$

and, $\dfrac{1}{\sqrt{x}} = \dfrac{1}{2 - \sqrt{3}} = 2 + \sqrt{3}$

Hence, $\sqrt{x} + \dfrac{1}{\sqrt{x}} = 2 - \sqrt{3} + 2 + \sqrt{3} = 4$

62. (D) ATQ,
Area of 4 walls = 2h $(l + b) = 600$

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

$\Rightarrow b = 20$ cm

63. (D) ATQ,

5 $\diagdown$ $\diagup$ 11
$\diagdown$ 7 $\diagup$
4 $\diagup$ $\diagdown$ 2
2 : 1
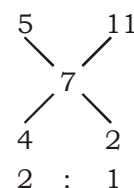
Hence, required rice $= 1200 \times \dfrac{2}{2+1}$

$= 800$ kgs

64. (B) ATQ,
Length of other diagonal

$= 2 \times \sqrt{10^2 - \left(\dfrac{12}{2}\right)^2} = 16$ cm

Hence, required area $= \dfrac{1}{2} \times 16 \times 12$

$= 96$ cm²

65. (B) ATQ,

Rate of interest = $\dfrac{2033 - 1900}{1900} \times 100 = 7\%$

66. (A) ATQ,

Amount in 1st year

$= \dfrac{x \times 8 \times 1}{100} + x = 1.08x$

Amount in 2nd year

$= \dfrac{(1.08x) \times 12 \times 1}{100} + 1.08x = 1.2096x$

then, $1.2096x = 10886.4$

$\Rightarrow x = \dfrac{10886.4}{1.2096} = ₹\,9000$

67. (B) ATQ,

$(k - 2)^2 + (7 - 19)^2 = (37)^2$

$\Rightarrow k^2 - 4k + 4 + 144 = 1369$

$\Rightarrow k^2 - 4k - 1221 = 0$

$\Rightarrow (k - 37)(k + 33) = 0$

$\Rightarrow k = 37, -33$

68. (A) ATQ,

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

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

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

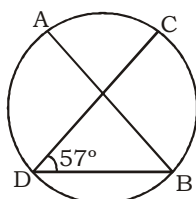**69. (B)** ATQ,

$\dfrac{p}{q} = \dfrac{a + 9}{a - 9}$

Apply componando and dividendo rule,

$\dfrac{p + q}{p - q} = \dfrac{a}{9}$

Square on both sides,

$\Rightarrow \left(\dfrac{p + q}{p - q}\right)^2 = \dfrac{a^2}{81}$

70. (C) ATQ,

$\angle ADB = 90°$ (angle made in half circle)

then, $\angle ADC = 90° - 57° = 33°$

but $\angle ADC = \angle ABC$ (angle made by same chord)

$\Rightarrow \angle ABC = 33°$

71. (A) ATQ,

$\dfrac{60}{x + y} + \dfrac{20}{x - y} = 4$

$\left[\dfrac{1}{x + y} = u, \dfrac{1}{x - y} = v\right]$

$\Rightarrow 60u + 20v = 4$ ....(i),

and, $\dfrac{40}{x + y} + \dfrac{40}{x - y} = 6$

$\Rightarrow 40u + 40v = 6$ ....(ii),

From equation (i) and (ii),

$u = \dfrac{1}{40}$ and $v = \dfrac{1}{8}$

then, $x + y = 40$ ....(iii),

$x - y = 8$ ....(iv),

From equation (iii) and (iv),

$y = 16$ and $x = 24$

Hence, the speed of stream = 16 kmph

72. (C) ATQ,

Required discount $= 56 + 14 - \dfrac{56 \times 14}{100}$

$= 62.16\%$

73. (A) ATQ,

$x = 2 - y$

$x^2 = 2 + y^2$

$\Rightarrow (2 - y)^2 = 3 + y^2$

$\Rightarrow 4 + y^2 - 4y = 3 + y^2$

$\Rightarrow y = \dfrac{1}{4} \Rightarrow x = 2 - \dfrac{1}{4} = \dfrac{7}{4}$

Hence, $xy = \dfrac{1}{4} \times \dfrac{7}{4} = \dfrac{7}{16}$

74. (B) ATQ,

$236.544 = P \times \left(\dfrac{8}{100}\right)^2 \left(\dfrac{308}{100}\right)$

$P = 12000$

Hence, required amount = ₹ 12000

75. (A) ATQ,

Let the initial price = $8x$

then, $\dfrac{180}{9x} - \dfrac{180}{8x} = 5$

$\dfrac{180 \times 1}{72x} = 5$

$\Rightarrow x = 0.5$

Hence, required price = $0.5 \times 8 = ₹\,4$

76. (C) Replace 'laud' with 'laudly'. Laudly is an adverb used for the verb 'shouted'.

77. (B) Replace 'is' with 'was'. As the tense is in Past Indefinite.

78. (C) Replace 'of' with 'in'. 'Died in an accident' and Died of Malaria, Died of disease is the correct usage.

79. (D) Look up to : have a great deal of respect for (someone)

98. (B) Amused : believing something to have an humorous equality.
    Bemused : Puzzled, confused, bewilder.

99. (B) Nothing but is followed by bore infinitive.

100. (A) Two conjunctions cannot be used in same sentence, unless related to each other like a co-relative. So it should be written as 'Although she is tired, She still …'.

MEANINGS IN ALPHABETICAL ORDER

Word	Meaning in English	Meaning in Hindi
Precipitous	very steep, perpendicular in rise or fall	बहुत ढ़ालवां
Efface	to eliminate	मिटाना
Grim	ghastly, repellent, or sinister in character	विकट, निष्ठुर
Phlegmatic	having or showing a slow and stolid temperament	आवेगहीन
Stolid	having or expressing little or no sensibility.	मंदबुद्धि
Renaissance	a new growth of activity or interest especially in arts, literature, or music	पुर्नजागरण
Sabotage	deliberately destroy, damage or obstruct (something), especially for political or military advantage	तोड़-फोड़
On par	at the same level or standard	के बराबर
Manifestation	a public demonstration of power and purpose	अभिव्यक्ति
Aghast	struck with terror, amazement, or horror; shocked and upset	भौचक्का
Soporific	causing or tending to cause sleep	निंद्राजनक
Stimulant	a temporary increase of the functional activity or efficiency	उत्तेजक पदार्थ
Agnostic	one who does not believe the existence or the non-existence of god	अज्ञेयवाद
Grumpy	bad tempered and sulky	क्रोधी
Trepidation	a feeling of fear or anxiety about something that may happen	घबराहट
Distinguish	to perceive a difference; to make as separate or different	अंतर करना
Dismay	to cause to lose courage	बेचैनी
Assurance	something that inspires or tends to inspire confidence	विश्वास
Fright	fear excited by sudden danger	भय
Chagrin	distress of mind caused by humiliation, disappointment, or failure.	चिढ़ाना, शर्मिंदगी

SSC (GD) MOCK TEST - 04 (ANSWER KEY)

── Answer key ──

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

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

Note:- If your opinion differs regarding any answer, please message the mock test and question number to 8860330003

Note:- Whatsapp with Mock Test No. and Question No. at 7053606571 for any of the doubts. Join the group and you may also share your suggestions and experience of Sunday Mock Test.

Note:- If you face any problem regarding result or marks scored, please contact 9313111777