

SSC (GD)MOCK TEST – 13 (SOLUTION)

1. (A) Information about Mughals is present in History and Information about Rivers is present in **Geography**.

2. (D) As, $7 \times 8 = 56$
 $8 \times 9 = 72$
 Similarly, $9 \times 10 = 90$
 $10 \times 11 = 110$

3. (B) As, $\begin{matrix} M & U & M & B & A & I \\ \swarrow & \searrow & \swarrow & \searrow & \swarrow & \searrow \\ U & M & B & M & I & A \end{matrix}$

Similarly,

$\begin{matrix} G & U & R & U & G & R & A & M \\ \swarrow & \searrow & \swarrow & \searrow & \swarrow & \searrow & \swarrow & \searrow \\ U & G & U & R & R & G & M & A \end{matrix}$

4. (A) $8 : 9 :: 25 : 32$
 $2^3 : 3^2 :: 5^2 : 2^5$

5. (D) Except **clash**, others are synonym of one-another.

6. (D) Except **Bhilai**, others are the nuclear power station.

7. (D) $583 \Rightarrow 8 - 5 = 3$

$275 \Rightarrow 7 - 2 = 5$

$286 \Rightarrow 8 - 2 = 6$

$427 \Rightarrow 2 - 4 \neq 7$

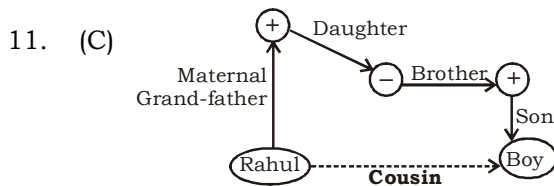
8. (D) As, $13 \Rightarrow 13^2 = 169$ and $31^2 = 961$
 and, $15 \Rightarrow 15^2 = 225$ and $51^2 = 2601$
 Similarly, $12 \Rightarrow 12^2 = 144$ and $21^2 = 441$

9. (C) As, $7^3 - 7 = 336$

and, $11^2 - 11 = 110$

Similarly, $8^3 - 8 = 504$

10. (A) $\begin{matrix} E & L & P & : & H & N & S & : & K & P & V & : & N & R & Y \\ \uparrow & \uparrow & \uparrow & & \uparrow & \uparrow & \uparrow & & \uparrow & \uparrow & \uparrow & & \uparrow & \uparrow & \uparrow \\ +3 & +2 & +2 & & +3 & +2 & +2 & & +3 & +2 & +2 & & +3 & +2 & +2 \end{matrix}$



12. (C) The date which will be a holiday = 1, 7, 8, 14, 15, 21, 22, 28, 29
 \therefore Required number of days = **9**

13. (B) **AB / AABB / AA AB BB**

14. (D) As, $\begin{matrix} D & I & G & I & T \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ @ & \# & \wedge & \# & * \end{matrix}$

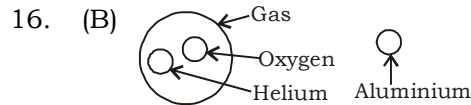
and, $\begin{matrix} E & A & R \\ \downarrow & \downarrow & \downarrow \\ ? & ! & < \end{matrix}$

Similarly, $\begin{matrix} T & I & G & E & R \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ * & \# & \wedge & ? & < \end{matrix}$

15. (C) 411 B 3 A 29 C 53 D 20

After changing the signs as per the given details,

$$411 \div 3 - 29 + 53 \times 20 = 137 - 29 + 1060 = 1168$$

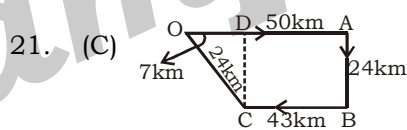


17. (C) $\begin{matrix} 2 & 3 & 5 & 9 & 17 & 33 \\ \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\ +1 & +2 & +4 & +8 & +16 \\ \times 2 & \times 2 & \times 2 & \times 2 & \times 2 \end{matrix}$

18. (A) Padma Shri \rightarrow Padma Bhushan \rightarrow Padma Vibhushan \rightarrow **Bharat Ratna**

19. (D)

20. (C)



$$OC = \sqrt{24^2 + 7^2} = 25 \text{ km}$$

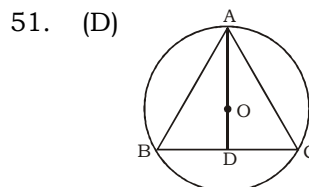
\therefore Minimum distance between the movie hall and his office = **25 km**

22. (B)

23. (D)

24. (C) ATQ,
 $3E + 5P = 105 \dots\dots(i)$
 $4E + 6P = 130 \dots\dots(ii)$
 On solving equation (i) and (ii), we get
 $E = 10$ and $P = 15$
 \therefore Price of one eraser = **₹10**

25. (D) Neither I nor II follows.



$$\frac{\sqrt{3}}{2} \times 12\sqrt{3} = 18 \text{ cm}$$

\therefore OA = Radius of circum-circle

$$= \frac{2}{3} \times 18 = 12 \text{ cm}$$

\therefore Area of circle = πr^2

$$= \frac{22}{7} \times 12 \times 12 = 452.57 \text{ sq cm.}$$

52. (D) C's work = (A + B)'s work
ATQ,
(B + C)'s can complete the work in 9 hr

$$36 \text{ minutes i.e.} = \frac{48}{5} \text{ hrs}$$

A can complete the work in 54 hours.

$$B + C = \frac{48}{5} \begin{matrix} \text{-----} 10 \\ \text{-----} 96 \text{ (Total work)} \\ \text{-----} 3 \end{matrix}$$

A = 32

We know that

C's efficiency = (A + B)'s efficiency

A's efficiency = 3

then,

$$C - B = 3$$

$$\text{and } B + C = 10$$

$$\Rightarrow \text{C's efficiency} = 6.5$$

$$\text{and, B's efficiency} = 3.5$$

$$\text{time taken by B is} = \frac{96}{3.5} = 27 \frac{3}{7} \text{ hr}$$

53. (B) We know that,
 $M_1 D_1 = M_2 D_2$
 $\Rightarrow 27 \times 16 = M_2 \times 18$
 $\Rightarrow M_2 = \frac{27 \times 16}{18} = 24 \text{ pipes}$
54. (D) The sum of two sides of a triangle is always greater than the third side.
(5, 8, 9), (5, 8, 12), (5, 9, 12) and (8, 9, 12)
Hence, the maximum number of triangle is 4.

55. (B) Here, $\angle ABD = 180^\circ - (105^\circ + 25^\circ)$
 $\Rightarrow \angle ABD = 50^\circ$

$$\text{and, } \angle DBC = 85^\circ - 50^\circ = 35^\circ$$

$$\text{Now, } \angle DBC + \angle ECB = 180^\circ$$

[\because SQ || RT]

$$\Rightarrow 35^\circ + 45^\circ + x = 180^\circ$$

$$\Rightarrow x = 180^\circ - 80^\circ$$

$$\Rightarrow x = 100^\circ$$

56. (B) ATQ,
Product of length and breadth of wall paper = perimeter of room
 $\Rightarrow \text{Length} \times 4 = 2(\text{Length} + \text{Breadth}) \times \text{height}$
 $\Rightarrow \text{Length} = \frac{2 \times 6(9.1 + 5.4)}{4} = 43.5 \text{ m}$

57. (A) ATQ,
SI at the rate of 6% for 3 year

$$\frac{P \times 6 \times 3}{100} = \frac{18P}{100} = \frac{9P}{50} \dots\dots\dots(i)$$

SI at the rate of 8% for next 6 year

$$= \frac{P \times 8 \times 6}{100} = \frac{24P}{50} \dots\dots\dots(ii)$$

For next 4 year

$$SI = \frac{P \times 10 \times 4}{100} = \frac{20P}{50} \dots\dots\dots(iii)$$

$$\text{Total SI} = \frac{9P}{50} + \frac{24P}{50} + \frac{20P}{50} = ₹3710$$

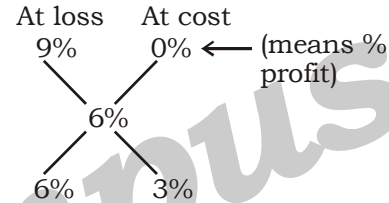
$$\Rightarrow P = \frac{3710 \times 50}{53} = ₹3500$$

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

$$\frac{8\sqrt{3} - 2\sqrt{3} - 5\sqrt{3}}{3\sqrt{3} - 2\sqrt{3}} = \frac{\sqrt{3}}{\sqrt{3}} = 1$$

59. (D) $6 + 1 = 7$

60. (A) ATQ,



Ratio of quantity of tea sold at loss and cost price = 2 : 1

$$\therefore \text{Quantity sold at cost price} = \frac{1}{3} \times 36 = 12 \text{ kg}$$

61. (A) $\theta = 25^\circ = \frac{25 \times \theta}{180} \text{ radian}$

$$= \frac{5\theta}{36} \text{ radian and, } \theta = \frac{s}{r}$$

$$\Rightarrow r = \frac{40}{\frac{5\theta}{36}} = \frac{40 \times 36}{5\theta} = \frac{40 \times 36 \times 7}{5 \times 22} \text{ m}$$

$$= 91.64 \text{ m}$$

62. (B) In $\triangle ABC$ and $\triangle AED$,

$$\angle BAC = \angle DAE$$

$$= 180^\circ - (75^\circ + 65^\circ) = 40^\circ$$

$$\angle AED = 65^\circ = \angle ACB$$

$\therefore \triangle AED \sim \triangle ABC$

$$\therefore \frac{DE}{BC} = \frac{AE}{AB} = \frac{AD}{AC} \Rightarrow \frac{3}{4} = \frac{9}{AB}$$

$$\Rightarrow AB = 12 \text{ cm}$$

63. (D) Let Monika got $x\%$ of the remaining 40 questions
ATQ,

$$\frac{x}{100} \times 40 + \frac{65}{100} \times 40 = \frac{75}{100} \times 80$$

$$\Rightarrow \frac{40x + 2600}{100} = \frac{6000}{100}$$

$$\Rightarrow 40x + 2600 = 6000$$

$$\Rightarrow 40x = 3400$$

$$\therefore x = \frac{3400}{40} = 85\%$$

64. (D) $1 - 3 + 5 - 7 + 9 - 11 + 13 - 15 + \dots$
 $\dots \dots 1000^{\text{th}}$ term
 $(1-3) + (5-7) + (9-11) + (13-15) + \dots$
 50^{th} term
 $(-2) + (-2) + (-2) + \dots \dots \dots 50$ term
 $= -100$

65. (A) Let the number of grapes eaten on the first day be x .
 $\therefore x + x + 6 + x + 12 + x + 18 + x + 24 = 100$
 $\Rightarrow 5x + 60 = 100$
 $\Rightarrow 5x = 100 - 60 = 40$

$$\Rightarrow x = \frac{40}{5} = 8$$

66. (B) Let the sum invested at 9% be ₹ x and that invested at 11% be ₹ $(100000 - x)$
 Then,

$$\left(\frac{x \times 9 \times 1}{100} \right) + \left[\frac{(100000 - x) \times 11 \times 1}{100} \right]$$

$$= \left(100000 \times \frac{39}{4} \times \frac{1}{100} \right)$$

$$\Rightarrow \frac{9x + 1100000 - 11x}{100} = \frac{39000}{4} = 9750$$

$$\Rightarrow 2x = (1100000 - 975000) = 125000$$

$$\Rightarrow x = 62500$$

$$\therefore \text{Sum invested at 9\%} = ₹62,500$$

$$\text{Sum invested at 11\%} = (100000 - 62500) = ₹37,500$$

67. (C) ATQ,
 $12C \times 16 = 8A \times 12$

$$\Rightarrow \frac{C}{A} = \frac{1}{2}$$

$$\therefore \text{Total work} = 12 \times 1 \times 16 = 196 \text{ unit}$$

$$\text{Work done by 16 adults in 3 days} = 16 \times 2 \times 3 = 96 \text{ units}$$

$$\therefore \text{Required number of days} = \frac{192 - 96}{6 \times 2 + 4 \times 1} = 6$$

68. (B) Let the total distance = x km

$$\frac{2x}{15} - \frac{x}{8} = 4$$

$$\Rightarrow 16x - 15x = 120 \times 4$$

$$\Rightarrow x = 480$$

69. (D) Work done by P + Q + R = 23
 Work done by (P + Q) = 19
 Work done by (Q + R) = 8

$$\therefore \text{Work done by Q} = 19 + 8 - 23 = 4$$

$$\therefore \text{Wage of Q} = \frac{5750}{23} \times 4 = ₹1000$$

70. (A) Let MP = 400
 SP = 300

$$\text{CP} = \frac{300 \times 100}{125} = 240$$

$$\text{MP} : \text{CP} = 400 : 240 = 5 : 3$$

71. (B) Diesel cars Petrol cars
 in state 2 in state 4

$$7000 \times \frac{28}{100} \times \frac{5}{14} \qquad 7000 \times \frac{26}{100} \times \frac{1}{2}$$

$$700 \qquad 910$$

$$\therefore \text{Difference} = 910 - 700 = 210$$

72. (A) Petrol engine cars in state - 3

$$= 7000 \times \frac{32}{100} \times \frac{3}{8} = 840$$

$$\text{Diesel engine cars in state - 1}$$

$$= 7000 \times \frac{14}{100} \times \frac{3}{7} = 420$$

$$\text{Required \%} = \frac{840 - 420}{420} = 100\%$$

73. (D) Required number of cars

$$= 7000 \times \frac{32}{100} \times \frac{5}{8} \times \frac{3}{4} = 1050$$

74. (C) Required average =

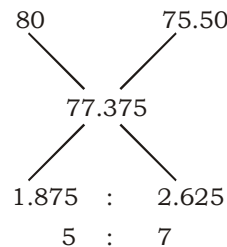
$$\frac{1}{4} (560 + 1260 + 840 + 910)$$

$$= 892.5 = 893$$

75. (A) Per quintal cost of two different sorts of

$$\text{rice} = \frac{4642.50}{60} = 77.375 \text{ per quintal}$$

Now,



$$\text{The quantity of better sort} = \frac{60}{12} \times 5 = 25$$

quintals and the quantity of worse sort

$$= \frac{60}{12} \times 7 = 35 \text{ quintals}$$

76. (B) Cut off → to fall asleep, to stop discussing.
Get over → to regain health, happiness.
∴ Change 'get' off with 'get over'.
77. (B) Change 'was' with 'is'. As the sentence is a universal truth. Hence, simple present tense will be used.
78. (B) Change 'future problems' with 'problems of the future'.
98. (A) Infinitive (to + V₁) will be used.
Hence, to maintain _____, should be used here.
99. (C) Unify (verb) means to make or become united.
Hence, to unify _____ should be used here. Unit (Noun) means a single thing.
100. (B) Hardly/scarcely takes inversion in sentence and 'when' as a conjunction.

MEANINGS IN ALPHABETICAL ORDER

Word	Meaning in English	Meaning in Hindi
Inflict	cause (something unpleasant) to be suffered by someone or something.	थोपना
Inherit	receive (money, property) as an heir at the death of the previous holder	वारिस
Break off	to stop doing something, especially speaking	टूट गया
Break down	(of a machine or motor vehicle) suddenly cease to function	खराबी
Break into	enter or open (a place) forcibly, especially for the purposes of theft.	जबरदस्ती घुस आना
Break up	disintegrate or disperse	संबंध विच्छेद
Vicarious	experienced in the imagination through the feelings or actions of another person	प्रतिनिधिक
nostalgic	feeling, evoking, or characterized by nostalgia	उदासीन
vindictive	having or showing a strong or unreasoning desire for revenge.	प्रतिरोधी
craven	contemptibly lacking in courage; cowardly.	डरपोक
debonair	confident, stylish, and charming.	खुशमिजाज
candid	truthful and straightforward; frank.	खरा
recline	lean or lie back in a relaxed position with the back supported.	झुकना
erect	rigidly upright or straight.	खरा
forthwith	(especially in official use) immediately; without delay	तुरंत
enslave	make (someone) a slave.	वश में रखना
recuperate	recover from illness or exertion.	स्वस्थ हो जाना
relapse	deteriorate after a period of improvement.	पतन
vandalize	deliberately destroy or damage (public or private property).	उपद्रव मचाना
reverent	feeling or showing deep and solemn respect.	श्रद्धालु
shrimp	a small free-swimming crustacean with an elongated body	झींगा
rant	to talk in a noisy, excited, or declamatory manner	शेखी

SSC (GD) MOCK TEST - 13 (ANSWER KEY)

Answer key

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

Hindi

English

76. (A)	75. (B)	84. (B)	76. (B)	86. (B)	96. (C)
77. (C)	76. (D)	85. (C)	77. (B)	87. (C)	97. (A)
78. (C)	77. (B)	86. (A)	78. (B)	88. (C)	98. (A)
79. (B)	78. (A)	87. (B)	79. (A)	89. (C)	99. (C)
70. (D)	79. (A)	88. (D)	80. (D)	90. (D)	100. (B)
71. (A)	80. (D)	89. (D)	81. (B)	91. (A)	
72. (D)	81. (A)	90. (A)	82. (B)	92. (C)	
73. (D)	82. (B)		83. (B)	93. (A)	
74. (A)	83. (B)		84. (B)	94. (A)	
			85. (C)	95. (A)	

