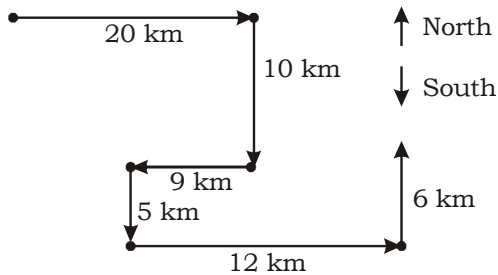


IBPS RRB PO PHASE - I - 111 (SOLUTION)

REASONING

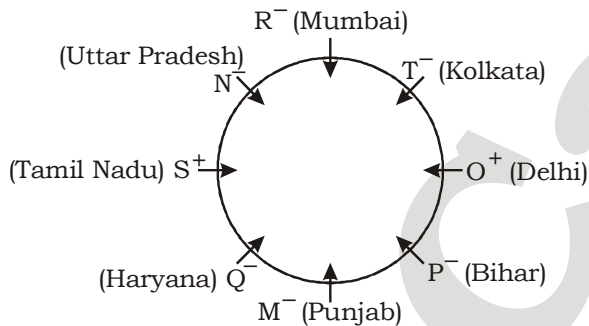
(1-5) :

1. (4) 2. (4) 3. (3)
4. (2) 5. (5)
6. (3)



Clearly - in north direction

(7-11) :



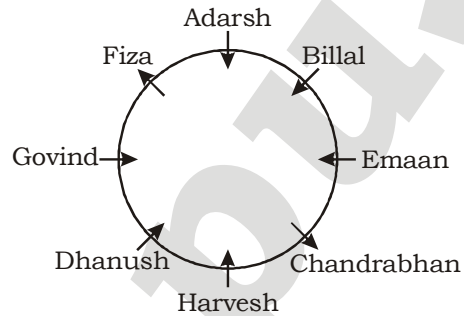
7. (3) 8. (2) 9. (1)
10. (5) 11. (4)

(12-14) :

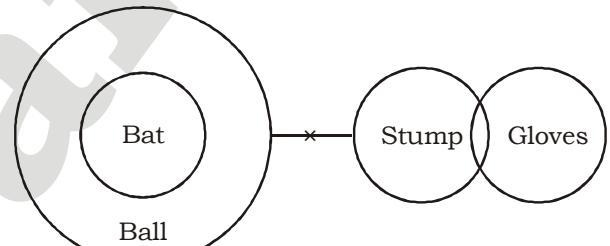
& → >, \$ → ≤
@ → <, % → =
* → ≥

12. (2) $P \geq Q < R = S > T$
I. $P > T \rightarrow$ false
II. $R > T \rightarrow$ true
Only conclusion II follow.
13. (3) $M = N \geq O < P = Q$
I. $M > O$ II. $M = O$ either, or
Either conclusion I or II follow.
14. (1) $A > B = C > D \leq E$
I. $A > D \rightarrow$ true
II. $E \geq C \rightarrow$ false
Only conclusion I follow.

(15-19) :

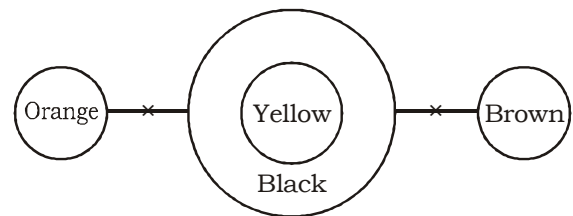


15. (1) 16. (4) 17. (3)
18. (2) 19. (2)
20. (5)
(21 - 25) :
21. (5)



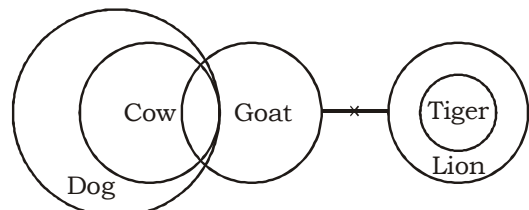
- I. Some balls are bat → true
II. Some gloves are not balls → true
Both conclusion I and II are follow.

22. (5)



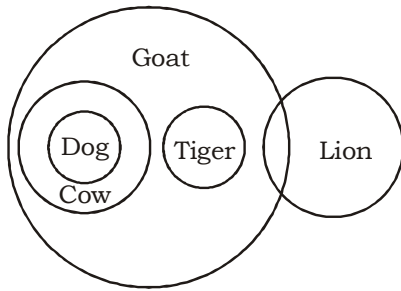
- I. Some orange are not yellow → true
II. Some yellow are not brown → true
Both conclusion I and II are follow

23. (4)



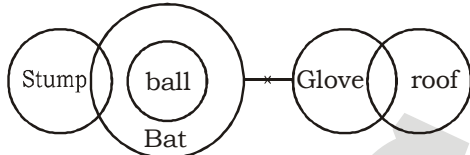
- I. Some goats being Tiger is a possibility
→ False
- II. All Cow being Tigers is a possibility
→ False
- Neither Conclusion I nor II follows.

24. (2)



- I. Some goats are not dog → False
- II. Some tigers being cows is a possibility
→ True
- Only conclusions II follows.

25. (2)



- I. All stump being golves is a possibility
→ False
- II. All stump being root is a possibility
→ True
- Only conclusions II follows.

(26-30):

26. (4) **From I:**
'de, fu, la, pa' → 'hibiscus flower is beautiful'
'la, qu' → 'beautiful tree'
Statement I not sufficient to give the answer
- From II:**
'de, fu, ch' - 'yellow hibiscu flower'
'pa, ch' - 'yellow tea'
Statement II not sufficient to answer the questions.
- Both statement I and II are not sufficient to answer the questions.

27. (5) **From I:**
From statement I we can clearly say that election was held in Jodhpur University on 16th.
- From II:**
From statement II we can clearly say that election was held in Jodhpur University on 16th.

28. (4) Both statement I and II together are not sufficient to answer the question,
29. (5) In statement I gives us the number of voters in the last election. Now, if we add 15% from statement II, we get the answer at present voters

$$= 860 \times \frac{115}{100} = 989$$

30. (4) From I, it can't be determined how many girls are there behind Sita, and hence total number of girls can't be found out. Hence statement II has no use. Thus statement I and II both are not sufficient to answer to question.

(31 - 35) :

Member	Car	Gender
X	Mahindra	F/M
Y	Maruti	F
Z	Swift	F/M
A	Nano	M
B	BMW	F
C	SUV	M
D	Volkswagon	M

Married couple = Y D and B C

Income → Z > D > C > X > A > Y > B

31. (4) 32. (3) 33. (2)
34. (5) 35. (2)

(36-40) :

Floor	Person	Movies
8	Pramod	Spiderman
7	Usha	Superman
6	Willy	Fast & Fusions
5	Tarik	Mad Max
4	Queen	Gravity
3	Raja	Godfather
2	Vinod	The departed
1	Sarita	Forest Gump

36. (4) 37. (1) 38. (3)
39. (4) 40. (5)

MATHS

(41-45):

41. (5) $\sqrt{33125} \times \sqrt{2600} - (83.01)^2 = (?)^2 + (36.99)^2$
 $\Rightarrow (?)^2 + (37)^2 \approx 182 \times 51 - (83)^2$
 $\Rightarrow (?)^2 + 1369 = 9282 - 6889$
 $\Rightarrow (?)^2 = 2393 - 1369$
 $\Rightarrow ?^2 = 1024$
 $\Rightarrow ? = 32$

42. (3) $69.98 \times 23.06 + 61.87 \times 32.05 = ?$

$$\Rightarrow ? \approx 70 \times 23 + 62 \times 32$$

$$= 1610 + 1984 = 3594$$

43. (5) $500.3 \times 14.96 \div 25.12 + ? = 12^2 \times 5^2$

$$\Rightarrow 500 \times 15 \div 25 + ? \approx 144 + 25$$

$$\Rightarrow 300 \times ? = 169$$

$$\Rightarrow ? = 169 \div 300 = -131$$

44. (2) $8537.986 - 2416.005 - 221.996 = ?$

$$\Rightarrow ? \approx 8538 - 2416 - 222$$

$$= 5900$$

45. (1) 69.008% of $699.998 + 32.99\%$ of $399.999 = ?$

$$\Rightarrow ? \approx 69\% \text{ of } 700 + 33\% \text{ of } 400$$

$$= 483 + 132 = 615$$

(46-50):

46. (4) Run scored by D = $\frac{80 \times 4}{100} = \frac{32}{10} = 3.2$

Run scored by F = $\frac{70 \times 5}{10} = \frac{35}{10} = 3.5$

$$\therefore \text{Required}\% = \left(\frac{3.5 - 3.2}{3.2} \times 100 \right)\%$$

$$= 9.375\%$$

47. (4) Total runs scored by E in 10 matches = $70 \times 10 = 700$

Total runs scored by E in 7 matches if last three matches are not considered) = $7 \times 55 = 385$

$$\therefore \text{Total runs scored by E in last three matches} = 700 - 385 = 315$$

Minimum run in 10th match, it means maximum run in 8th and 9th are below 100 and no two scores are equal.

So, run scores in 8th and 9th match are 98 and 99

$$\therefore \text{Run scored in 10th match}$$

$$= 315 - (98 + 99)$$

$$= 315 - 197 = 118$$

48. (3) Let average of A = x

$$\therefore \text{Total runs scored} = 20x$$

$$\text{and no. of ball faced} = 20x - 600$$

ATQ,

Strike rate = $\frac{20x}{20x - 600} \times 100$

$$\Rightarrow 160 = \frac{20x}{20x - 600} \times 100$$

$$\Rightarrow 8 = \frac{x}{20x - 600} \times 100$$

$$\Rightarrow 160x - 4800 = 100x$$

$$\Rightarrow 60x = 4800$$

$$\Rightarrow x = \frac{4800}{60} = 80$$

49. (3) Let B played x no. of ball in first eight and last eight matches

 \therefore Run scored by B in first eight matches

$$= \frac{80 \times x}{100} = \frac{4x}{5}$$

and runs scored by B in last eight

$$\text{matches} = \frac{96 \times x}{100} = \frac{24x}{25}$$

ATQ,

$$\frac{4x}{5} + \frac{24x}{25} = 16 \times 55$$

$$\Rightarrow \frac{20x + 24x}{25} = 880$$

$$\Rightarrow x = \frac{880 \times 25}{44} = 500$$

 \therefore Total no. of ball faced by B in the tournament = $500 + 500 = 1000$

50. (3) Let the no. of matches played by C in tournament = x

ATQ,

Strike rate = $\left(\frac{60x}{400} \times 100 \right)$

$$\Rightarrow 120 = \frac{60x}{400} \times 100$$

$$\Rightarrow x = \frac{400 \times 120}{100 \times 60} = 8$$

(51-55):

51. (3) The number series is :

$(49 \div 7) - 7 = 0$

$(0 \times 7) + 7 = 7$

$(7 \div 7) - 7 = -6$

$(-6 \times 7) + 7 = -35$

$(-35 \div 7) - 7 = -12 \neq 14$

$(-12 \times 7) + 7 = -77$

52. (3) The number series is :

$8 - (8 \times 4.5) = -28$

$-28 + (36 \times 4.5) = 134$

$134 - (162 \times 4.5) = -595 \neq -514$

$-595 + (729 \times 4.5) = 2685.5$

$2685.5 - (3280.5 \times 4.5) = -12076.75$

53. (4) The number series is :

$4 \times 4 - 7 = 9$

$9 \times 5 - 7 = 38$

$38 \times 4 - 7 = 145$

$145 \times 5 - 7 = 718 \neq 725$

$718 \times 4 - 7 = 2865$

$2865 \times 5 - 7 = 14318$

54. (1) The number series is :

$$\begin{aligned} 6 \times 1 + 1 \times 2 &= 8 \\ 8 \times 2 - 2 \times 3 &= 10 \\ 10 \times 3 + 3 \times 4 &= 42 \\ 42 \times 4 - 4 \times 5 &= 148 \neq 146 \\ 148 \times 5 + 5 \times 6 &= 770 \\ 770 \times 6 - 6 \times 7 &= 4578 \end{aligned}$$

55. (2) The number series is :

$$\begin{aligned} 198 - 3^2 + 1 &= 190 \\ 190 - 4^2 + 1 &= 175 \\ 175 - 5^2 + 1 &= 151 \\ 151 - 6^2 + 1 &= 116 \\ 116 - 7^2 + 1 &= 68 \neq 72 \end{aligned}$$

56. (5) Required probability

$$\begin{aligned} &= \frac{{}^7C_2 \times {}^8C_2}{{}^{15}C_4} \\ &= \frac{21 \times 28}{105 \times 13} \\ &= \frac{28}{65} \end{aligned}$$

57. (5) Charge of one call in May

$$= \frac{350}{150} = \frac{7}{3}$$

Charge of one call in June

$$= \frac{350 + 50 \times 1.4}{250}$$

$$= \frac{420}{250} = \frac{42}{25}$$

∴ Required %

$$= \left(\frac{\frac{7}{3} - \frac{42}{25}}{\frac{7}{3}} \times 100 \right) \%$$

$$= 76\%$$

58. (3) ATQ,

Time taken by Bipin = 36 hours.

Actual time required by Bipin

$$= \frac{600}{25} = 24 \text{ hours.}$$

It means Bipin rest for

$$= (36 - 24) = 12 \text{ hours.}$$

Now, the time required for Chandan

$$= \frac{600}{30} = 20 \text{ hours.}$$

But, Chandan already walked for 12 hours in which Bipin rest.

So, he needs only (20 - 12)

$$= 8 \text{ hours extra}$$

Thus, the total time taken by Chandan = 36 + 8 = 44 hours.

59. (3) Initial area of carpet

$$= 3 \times (3 \times 1.44) = 12.96 \text{ m}^2$$

After corresponding changes in the dimensions,

Area of carpet

$$= \left(3 \times \frac{125}{100} \right) \times \left(3 \times 1.44 \times \frac{140}{100} \right) = 22.68 \text{ m}^2$$

$$\therefore \text{Increase in area} = 22.68 - 12.96 = 9.72 \text{ m}^2$$

$$\therefore \text{Increase in cost} = 9.72 \times 45 = ₹ 437.40$$

60. (3) No. of ways of arranging the word

$$'ENGINEER' = \frac{8!}{3! \times 2!} = 3360$$

No. of ways of arranging the word 'ENGINEER' such that 'G' and 'R' are

$$\text{always together} = \frac{7!}{3! \times 2!} = 420$$

$$\therefore \text{No. of ways of arranging the word 'ENGINEER' such that 'G' and 'R' are never together} = 3360 - 420 = 2940$$

(61-65):

61. (4) Income of Q in the year 2002

$$= 12 \times \frac{135}{100} = ₹ 16.2 \text{ lakh}$$

Income of Q in the year 2003

$$= 14.5 \times \frac{150}{100} = ₹ 21.75 \text{ lakh}$$

∴ Total Income

$$= 16.2 + 21.75$$

$$= ₹ 37.95 \text{ lakh}$$

62. (5) Required ratio

$$= 3 \times \frac{130}{100} : 4 \times \frac{140}{100}$$

$$= 3 \times 13 : 4 \times 14$$

$$= 39 : 56$$

63. (4)

64. (1) Let the expenditure of company P and Q in the year 2006 = ₹ x lakh

ATQ,

$$x \times \frac{140}{100} + x \times \frac{145}{100} = 5.7$$

$$\Rightarrow \frac{285x}{100} = 5.7$$

$$\Rightarrow x = \frac{5.7 \times 100}{285} = ₹ 2 \text{ lakh}$$

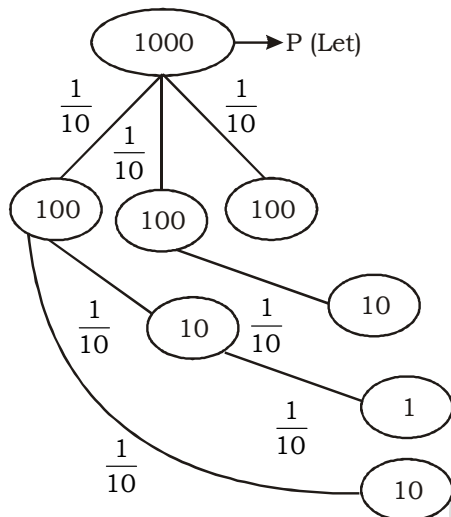
∴ Total expenditure

$$= 2 + 2 = ₹ 4 \text{ lakh}$$

65. (3) Required ratio

$$\begin{aligned} &= \frac{2}{150} \times 100 : \frac{3}{145} \times 100 \\ &= \frac{2}{150} : \frac{3}{145} \\ &= 29 : 45 \end{aligned}$$

66. (2) $R = 10\% = \frac{1}{10}$



C.I of 2nd year = 110

C.I. of 3rd year = 121

∴ ATQ,

$$(121 - 110) \text{ unit} \rightarrow ₹110$$

$$\begin{aligned} \Rightarrow 1000 \text{ unit} &\rightarrow \frac{110}{11} \times 1000 \\ &= ₹10,000 \end{aligned}$$

67. (2) S.I for Sneha = $\frac{1150 \times 6 \times 3}{100}$

$$= ₹207$$

$$\begin{aligned} \therefore \text{Total interest earned by Sneha} \\ &= 207 + 274.95 = ₹481.95 \end{aligned}$$

$$\begin{aligned} \therefore \text{Required sum} &= \frac{481.95 \times 100}{3 \times 9} \\ &= ₹1785 \end{aligned}$$

68. (4) Let smallest no. of set-I = x

ATQ,

$$x + x + 2 + x + 4 + x + 6 + x + 8 = 280$$

$$\Rightarrow 5x = 280 - 20$$

$$\Rightarrow x = \frac{260}{5} = 52$$

$$\begin{aligned} \therefore \text{Smallest no. of set-II} \\ &= 52 \times 2 - 71 = 33 \end{aligned}$$

$$\begin{aligned} \therefore \text{Required sum} &= 33 + 34 + 35 + 36 + \\ &37 = 175 \end{aligned}$$

69. (3) Required probability = $\frac{4}{52} \times \frac{3}{51}$

$$= \frac{6}{26 \times 51} = \frac{1}{221}$$

70. (1) Let the capacity of tank = 300 litres. In 1 hours, all the pipes together fills the tank

$$\begin{aligned} &= \frac{300}{15} + \frac{300}{20} - \frac{300}{25} \\ &= 20 + 15 - 12 = 23 \text{ litres} \end{aligned}$$

∴ After 10 hours, tanks filled up by (23×10)
= 230 litres

$$\begin{aligned} \text{Remaining capacity} &= 300 - 230 \\ &= 70 \text{ litres} \end{aligned}$$

It is filled by pipes P and Q in $\frac{70}{20+15}$
= 2 hours.

(71-75) :

71. (4) Actual **approx.** average

$$\begin{aligned} &= \frac{53 \times 58 - (65 - 45)}{53} \\ &= \frac{3074 - 20}{53} \\ &= 57.62 \text{ kg} \end{aligned}$$

72. (3) Let the M.P = ₹ 100

$$\text{C.P of man} = 100 \times \frac{80}{100} = ₹80$$

$$\text{S.P} = 80 \times \frac{125}{100} = ₹100$$

$$\text{New M.P} = \frac{100}{80} \times 100 = ₹125$$

$$\begin{aligned} \therefore \text{Required\%} &= \left(\frac{125 - 100}{100} \times 100 \right) \% \\ &= 25\% \end{aligned}$$

73. (2) Ratio of their profit

$$\begin{aligned} &= (60000 \times 12 + 80000 \times 24) : (90000 \times 30) \\ &= 720000 + 1920000 : 2700000 \\ &= 2640000 : 2700000 \\ &= 132 : 135 \end{aligned}$$

$$\begin{aligned} \therefore \text{Ram's share} &= \frac{7120000}{267} \times 132 \\ &= ₹35,20,000 \end{aligned}$$

74. (4) 60 % of 150 = 90

Priti answered 80% of 75 questions

$$= \frac{80}{100} \times 75 = 60$$

$$\therefore \text{Required \%} = \left(\frac{30}{75} \times 100 \right) \% = 40\%$$

75. (4) No. of valid votes

$$= 6000 \times \frac{75}{100} = 4500$$

$$\therefore \text{Nitish gets} = 4500 \times \frac{35}{100} \\ = 1575$$

(76-80) :76. (2) I. $2x^2 - x - 231 = 0$

$$\Rightarrow 2x^2 - 22x + 21x - 231 = 0$$

$$\Rightarrow 2x(x - 11) + 21(x - 11) = 0$$

$$\Rightarrow (2x + 21)(x - 11) = 0$$

$$\Rightarrow x = -\frac{21}{2}, 11$$

II. $2y^2 + 43y + 231 = 0$

$$\Rightarrow 2y^2 + 22y + 21y + 231 = 0$$

$$\Rightarrow 2y(y + 11) + 21(y + 11) = 0$$

$$\Rightarrow (2y + 21)(y + 11) = 0$$

$$\Rightarrow y = -\frac{21}{2}, -11$$

Clearly, $x \geq y$ 77. (3) I. $\sqrt{2}x^2 + 7\sqrt{2}x + 12\sqrt{2} = 0$

$$\Rightarrow \sqrt{2}x^2 + 4\sqrt{2}x + 3\sqrt{2}x + 12\sqrt{2} = 0$$

$$\Rightarrow \sqrt{2}x(x + 4) + 3\sqrt{2}(x + 4) = 0$$

$$\Rightarrow (\sqrt{2}x + 3\sqrt{2})(x + 4) = 0$$

$$\Rightarrow x = \frac{-3\sqrt{2}}{\sqrt{2}}, -4$$

$$\Rightarrow x = -3, -4$$

II. $5y^2 - 66y - 56 = 0$

$$\Rightarrow 5y^2 - 70y + 4y - 56 = 0$$

$$\Rightarrow 5y(y - 14) + 4(y - 14) = 0$$

$$\Rightarrow (5y + 4)(y - 14) = 0$$

$$\Rightarrow y = -\frac{4}{5}, 14$$

Clearly, $x < y$ 78. (2) I. $55x^2 - 495x + 1100 = 0$

$$\Rightarrow x^2 - 9x + 20 = 0$$

$$\Rightarrow x^2 - 4x - 5x + 20 = 0$$

$$\Rightarrow x(x - 4) - 5(x - 4) = 0$$

$$\Rightarrow (x - 5)(x - 4) = 0$$

$$\Rightarrow x = 5, 4$$

II. $5y^2 + 10y - 120 = 0$

$$\Rightarrow 5y^2 + 30y - 20y - 120 = 0$$

$$\Rightarrow 5y(y + 6) - 20(y + 6) = 0$$

$$\Rightarrow (5y - 20)(y + 6) = 0$$

$$\Rightarrow y = 4, -1$$

Clearly, $x \geq y$ 79. (5) I. $9x^2 - 94.5x + 243 = 0$

$$\Rightarrow x^2 - 10.5x + 27 = 0$$

$$\Rightarrow 2x^2 - 21x + 54 = 0$$

$$\Rightarrow 2x^2 - 12x - 9x + 54 = 0$$

$$\Rightarrow 2x(x - 6) - 9(x - 6) = 0$$

$$\Rightarrow (2x - 9)(x - 6) = 0$$

$$\Rightarrow x = \frac{9}{2}, 6$$

II. $4.5y^2 - 13.5y - 486 = 0$

$$\Rightarrow y^2 - 3y - 108 = 0$$

$$\Rightarrow y^2 - 12y + 9y - 108 = 0$$

$$\Rightarrow y(y - 12) + 9(y - 12) = 0$$

$$\Rightarrow (y + 9)(y - 12) = 0$$

$$\Rightarrow y = -9, 12$$

80. (5) I. $x^2 - 87x - 270 = 0$

$$\Rightarrow x^2 - 90x + 3x - 270 = 0$$

$$\Rightarrow x(x - 90) + 3(x - 90) = 0$$

$$\Rightarrow (x + 3)(x - 90) = 0$$

$$\Rightarrow x = -3, 90$$

II. $7y^2 - 11y - 18 = 0$

$$\Rightarrow 7y^2 + 7y - 18y - 18 = 0$$

$$\Rightarrow 7y(y + 1) - 18(y + 1) = 0$$

$$\Rightarrow (7y - 18)(y + 1) = 0$$

$$\Rightarrow y = \frac{18}{7}, -1$$

KD
Campus

KD Campus

2007, OUTRAM LINES, 1ST FLOOR, OPPOSITE MUKHERJEE NAGAR POLICE STATION, DELHI-110009

IBPS RRB PO PHASE - I - 111 (ANSWER KEY)

- | | | | |
|---------|---------|---------|---------|
| 1. (4) | 21. (5) | 41. (5) | 61. (4) |
| 2. (4) | 22. (5) | 42. (3) | 62. (5) |
| 3. (3) | 23. (4) | 43. (5) | 63. (4) |
| 4. (2) | 24. (2) | 44. (2) | 64. (1) |
| 5. (5) | 25. (2) | 45. (1) | 65. (3) |
| 6. (3) | 26. (4) | 46. (4) | 66. (2) |
| 7. (3) | 27. (5) | 47. (4) | 67. (2) |
| 8. (2) | 28. (4) | 48. (3) | 68. (4) |
| 9. (1) | 29. (5) | 49. (3) | 69. (3) |
| 10. (5) | 30. (4) | 50. (3) | 70. (1) |
| 11. (4) | 31. (4) | 51. (3) | 71. (4) |
| 12. (2) | 32. (3) | 52. (3) | 72. (3) |
| 13. (3) | 33. (2) | 53. (4) | 73. (2) |
| 14. (1) | 34. (5) | 54. (1) | 74. (4) |
| 15. (1) | 35. (2) | 55. (2) | 75. (4) |
| 16. (4) | 36. (4) | 56. (5) | 76. (2) |
| 17. (3) | 37. (1) | 57. (5) | 77. (3) |
| 18. (2) | 38. (3) | 58. (3) | 78. (2) |
| 19. (2) | 39. (4) | 59. (3) | 79. (5) |
| 20. (5) | 40. (5) | 60. (3) | 80. (5) |

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

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

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