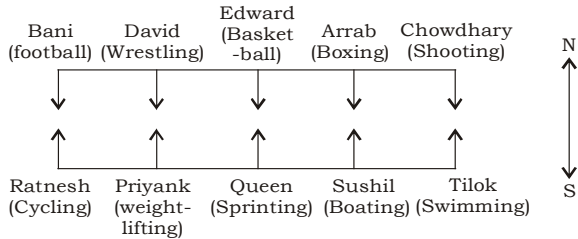


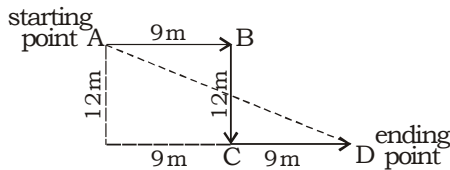
IBPS PO PHASE - I - 102 (SOLUTION)

REASONING

(1-5):



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

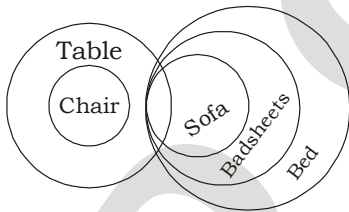


$$AD = \sqrt{(18)^2 + (12)^2} = \sqrt{324 + 144}$$

$$= \sqrt{468} = 6\sqrt{13} \text{ m}$$

(7-10):

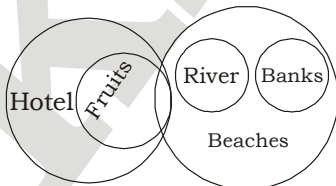
7. (1) **Statement :**



Conclusion :

- I. × II. ×
 III. × IV. ×
 None of follow

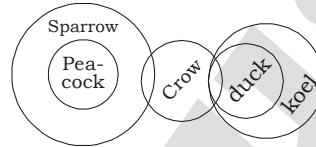
8. (5) **Statement :**



Conclusion :

- I. × II. ×
 III. ✓ IV. ×
 None of follow

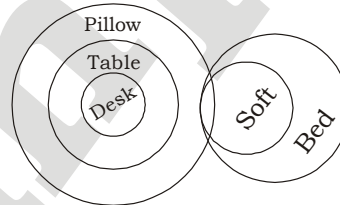
9. (3) **Statement :**



Conclusion :

- I. ✓ II. ×
 III. × IV. ×
 either or
 Only I and either II or IV follow.

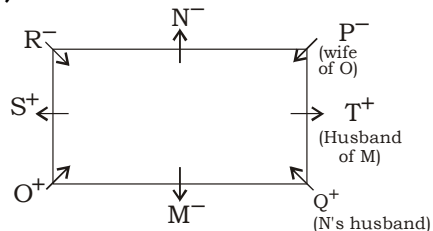
10. (3) **Statement :**



Conclusion :

- I. × II. ×
 III. ✓ IV. ✓
 Only III and IV follow.

(11-15):



11. (2) 12. (3) 13. (3)
 14. (1) 15. (5)

(16-20):

Days	Cultural Event
Monday	Fashion event
Tuesday	Cannabis event
Wednesday	Art event
Thursday	Museum event
Friday	Animation event
Saturday	Comic event, Finework event
Sunday	Hemp event food & drink event

16. (1) 17. (2) 18. (4)
 19. (4) 20. (2)

(21-25):

- \$ → ≥
 @ → >
 % → <
 # → <
 * → =

21. (3) $P = R > S \geq T < U$

- I. $P > T \rightarrow$ True
 - II. $T = P \rightarrow$ false
 - III. $U > S \rightarrow$ false
- only I follows

22. (5) $A > B < C \leq D > E$

- I. $A > D \rightarrow$ False
 - II. $B > E \rightarrow$ False
 - III. $A > C \rightarrow$ False
- None of these

23. (1) $X < Y \leq Z = A < B$

- I. $X > Y \rightarrow$ True
 - II. $X = Z \rightarrow$ False
 - III. $Y \leq B \rightarrow$ False
- Only I follows

24. (3) $R \leq M = G \leq H < F$

- I. $F \geq R \rightarrow$ False
 - II. $F > R \rightarrow$ True
 - III. $H \geq G \rightarrow$ True
- Only II and III follows

25. (3) $M > N \geq Q = O \geq P$

- I. $M \geq P \rightarrow$ False
 - II. $M > P \rightarrow$ True
 - III. $N \geq Q \rightarrow$ True
- Only II and III follows

(26-30) :

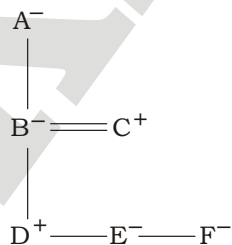
26. (5) From statement I,
 June July August September
 (30) (31) (31) (30)
 October
 (31)

From statement II,
 August September October
 (31) (30) (31)

November December
 (30) (31)

From statement I and II, we can conclude that Alok resigned from school in september month.

27. (5) From I and II,

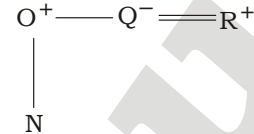


From statement I and II, we can conclusion that B is mother of F.

28. (3)

29. (5) From statement I and II,
 chunky > Imtiaz > Anupam > Dipesh > Baidehi > farooq
 from I and II, second tallest is Imtiaz.

30. (1) From statement I,

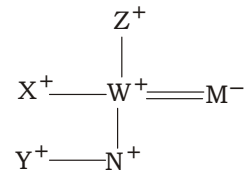


Here N gender is not desided
 So, statement I is not sufficient.
 From statement II,



Here N is male so N is Nephew of R

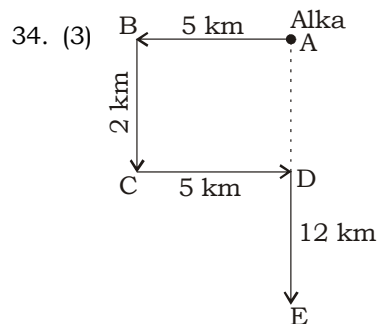
(31-33) :



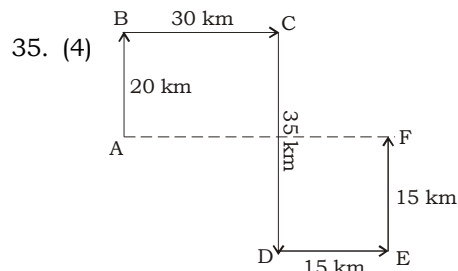
31. (4)

32. (3)

33. (3)



$$AE = AD + DE = 2 + 12 = 14 \text{ km}$$



$$AF = 30 + 15 = 45 \text{ km}$$

MATHS

(36-40) :

$$36. (4) \frac{515 \times 22}{100} - 43 \approx \frac{?}{5.5}$$

$$\Rightarrow 113.3 - 43 = \frac{?}{5.5}$$

$$\therefore ? = 70.3 \times 5.5 = 386.65 \approx 386$$

$$37. (2) ? \approx \frac{1600 \times 200}{50} - 1400 + 3900$$

$$= 6400 - 1400 + 3900 = 8900 \approx 9000$$

$$38. (1) ? \approx 4434 - 2212 - 1134 + 3377$$

$$= 4465 \approx 4466$$

$$39. (2) ? \approx (14)^2 - (15)^2 + (18)^2 - 33$$

$$= 196 - 225 + 324 - 33 = 262 \approx 264$$

$$40. (4) ? = 8 \times 6 \div 9 = 5.33 \approx 5$$

(41-45) :

41. (1) Total no. of employees in Account department in all the organisations in the year 2016

$$= (260 + 250 + 220 + 240 + 300 + 300 +$$

$$320) \times \frac{120}{100} = 2268$$

Total no. of employees in HR department in all the organisations in the year 2016

$$= (200 + 230 + 320 + 160 + 260 + 180 +$$

$$360) \times \frac{85}{100} = 1453.5$$

$$\therefore \text{Required}\% = \left(\frac{2268}{1453.5} \times 100 \right) \%$$

$$= 156.03\% \approx 156\%$$

42. (3) Required ratio
 $= (220 + 240 + 320) : (300 + 320 + 360)$
 $= 780 : 880 = 39 : 44$

43. (2) Total no. of employees in Administration department
 $= (350 + 280 + 240 + 360 + 160 + 240 + 200) = 1830$

Total no of employees in Account department

$$= (260 + 250 + 220 + 240 + 300 + 300 + 320) = 1890$$

$$\therefore \text{Required difference} = 1890 - 1830 = 60$$

44. (4) Required number

$$= 350 \times \frac{112}{100} + 280 \times \frac{120}{100} + 240 \times \frac{115}{100}$$

$$= 392 + 336 + 276 = 1004$$

45. (1) Total no. of employees in organisation Q
 $= 230 + 250 + 280 = 760$

\therefore No of employees having liking music

$$\frac{760}{16} \times 4 = 190$$

46. (5) The pattern of the number series is :
 $5 + 7^2 = 54$

$$54 + 6^2 = 90$$

$$90 + 5^2 = 115$$

$$115 + 4^2 = 131$$

$$131 + 3^2 = 140$$

$$140 + 2^2 = 140 + 4 = \mathbf{144}$$

47. (4) The pattern of the number series is :

$$7 \times 0.5 + 0.5 = 3.5 + 0.5 = 4$$

$$4 \times 1 + 1 = 4 + 1 = 5$$

$$5 \times 1.5 + 1.5 = 7.5 + 1.5 = 9$$

$$9 \times 2 + 2 = 18 + 2 = \mathbf{20}$$

$$20 \times 2.5 + 2.5 = 52.5$$

$$52.5 \times 3 + 3 = 160.5$$

48. (3) The pattern of the number series is :

$$6 \times 7 = 42$$

$$42 \times 6 = \mathbf{252}$$

$$252 \times 5 = 1260$$

$$1260 \times 4 = 5040$$

$$5040 \times 3 = 15120$$

$$15120 \times 2 = 30240$$

49. (1) The pattern of the number series is :

$$4 \times 5 - 10 = 10$$

$$10 \times 5 - 10 = 40$$

$$40 \times 5 - 10 = 190$$

$$190 \times 5 - 10 = 940$$

$$940 \times 5 - 10 = \mathbf{4690}$$

$$4690 \times 5 - 10 = 23440$$

50. (2) The pattern of the number series is :

$$2 \times 1 + 1 \times 7 = 9$$

$$9 \times 2 + 2 \times 6 = 30$$

$$30 \times 3 + 3 \times 5 = \mathbf{105}$$

$$105 \times 4 + 4 \times 4 = 436$$

$$436 \times 5 + 5 \times 3 = 2195$$

$$2195 \times 6 + 6 \times 2 = 13182$$

51. (2) From statement I,

Total weight of 60 students

$$= 60 \times 42 = 2520 \text{ kg}$$

From statement III,

Total weight of all the girls = 1144 kg

$$\therefore \text{Total weight of all the boys} = 2520 - 1144 = 1376 \text{ kg.}$$

From statement II,

$$\text{Number of boys} = \frac{1376}{32} = 32$$

$$\therefore \text{Number of girls} = 60 - 32 = 25$$

From statement III,

$$\text{Average weight of girls} = \frac{1144}{28} \approx 40.86 \text{ kg}$$

52. (1) From statement I and III,
S.P. can be obtained.
From statements II and III,
Let the SP be ₹ x .
After 10% discount,

$$SP = 90\% \text{ of } x = ₹ \frac{9}{10} x$$

$$\therefore \frac{9}{10} x - 15000 = 1200$$

$$\Rightarrow 9x = 150000 + 12000$$

$$\Rightarrow x = \frac{162000}{9} = ₹ 18,000$$

From statements I and II,
Let the CP = ₹ x

$$\therefore S.P. = \frac{120}{100} x = ₹ \frac{6x}{5}$$

Now, after 10% discount on ₹ $\frac{6x}{5}$

$$\text{New S.P.} = \frac{90}{100} \times \frac{6x}{5} = ₹ \frac{54x}{50}$$

$$\therefore \frac{54x}{50} - x = 1200$$

$$\Rightarrow 54x - 50x = 50 \times 1200$$

$$\Rightarrow x = \frac{50 \times 1200}{4} = ₹ 15,000$$

Hence, S.P. can be calculated as S.P.

53. (5) From statement I,
Let the length of the train be x metre.
 \therefore Length of platform $3x$

$$= \frac{3x}{2} \text{ metre}$$

From statement II,

$$\text{Speed of train} = \frac{\frac{3x}{2} + x}{25}$$

$$= \frac{5x}{50} = \frac{x}{10} \quad \dots(i)$$

But x is not known. Hence, we proceed.
From statement III,

$$\text{Speed of train} = \frac{x}{19} \quad \dots(ii)$$

Clearly, we reach at no unique conclusion.

54. (4) From statement I,
80% children speak languages other than Hindi.

From statement II,

\therefore Total number of children

$$= \frac{44 \times 100}{80} = 55$$

55. (5) From statements I and II,
Volume of tank = AB cubic metres
From statements II and III,

$$\text{Radius of base} = \frac{B}{2}$$

\therefore Volume = $\pi \times (\text{radius})^2 \times \text{height}$

From statements I and III,

Area of base = A sq. metres.

Hence, radius can be determined.

Height = 2 \times radius.

Clearly, after knowing height and area of base, volume can be determined.

(56-60) :

56. (4) C.P of the year 2013 = $(560 + 80) \times 1000$
= ₹ 6,40,000

S.P of the year 2013 = ₹ 8,00,000

$$\therefore \text{Profit \%} = \left[\frac{800000 - 640000}{640000} \times 100 \right] \%$$

$$= 25\%$$

Now, C.P of the year 2015

$$= (480 + 200) \times 1000 = ₹ 6,80,000$$

\therefore S.P of the year 2015

$$= 680000 \times \frac{125}{100} = ₹ 8,50,000$$

57. (1) C.P of the year 2011

$$= (340 + 120) \times 1000$$

$$= ₹ 4,60,000$$

S.P of the year 2011

$$= ₹ 6,40,000$$

$$\therefore \text{Profit} = 640000 - 460000 = ₹ 1,80,000$$

$$\therefore \text{Total profit earned} = 1,80,000 \times 15$$

$$= ₹ 27,00,000$$

\therefore Amount given to charity

$$= 27,00,000 \times \frac{1}{9} = ₹ 3,00,000$$

58. (3) C.P of the year 2012

$$= (420 + 100) \times 1000$$

$$= ₹ 5,20,000$$

S.P of the year 2012 = ₹ 7,20,000

$$\therefore \text{Profit} = 720000 - 520000$$

$$= ₹ 2,00,000$$

Given, when the speed of the steamer in still water is doubled, then the trip from P to Q and back again would take 20% of the time that the steamer usually spends in the journey.

$$\Rightarrow \frac{d}{2x-y} + \frac{d}{2x+y} = 20\% \text{ of } \left(\frac{d}{x-y} + \frac{d}{x+y} \right)$$

$$- \frac{4xd}{4x^2 - y^2} - 0.2 \times \frac{2xd}{x^2 - y^2}$$

$$\Rightarrow 0.8x^2 - 0.2y^2 = 2x^2 - 2y^2$$

$$\Rightarrow 1.2x^2 = 1.8y^2$$

$$\therefore x = \sqrt{\frac{3}{2}}y$$

(66-70) :

66. (5) I. $3x^2 + 7x + \frac{4}{3} = \frac{7}{9}x^2 - \frac{1}{9}x$

$$\Rightarrow 3x^2 + 7x + \frac{4}{3} - \frac{7}{9}x^2 + \frac{1}{9}x = 0$$

$$\Rightarrow \left(3 - \frac{7}{9}\right)x^2 + \left(7 + \frac{1}{9}\right)x + \left(\frac{4}{3}\right) = 0$$

$$\Rightarrow \left(\frac{20}{9}\right)x^2 + \left(\frac{64}{9}\right)x + \left(\frac{4}{3}\right) = 0$$

$$\Rightarrow 20x^2 + 64x + 12 = 0$$

$$\Rightarrow 5x^2 + 16x + 3 = 0$$

$$\Rightarrow 5x^2 + x + 15x + 3 = 0$$

$$\Rightarrow x(5x + 1) + 3(5x + 1) = 0$$

$$\Rightarrow (x + 3)(5x + 1) = 0$$

$$\Rightarrow x = -3, -\frac{1}{5}$$

II. $3y^2 + 8y + 2 = \frac{5}{7}y^2 - \frac{10}{7}$

$$\Rightarrow 3y^2 + 8y + 2 - \frac{5}{7}y^2 + \frac{10}{7} = 0$$

$$\Rightarrow \left(3 - \frac{5}{7}\right)y^2 + 8y + \left(\frac{24}{7}\right) = 0$$

$$\Rightarrow \left(\frac{16}{7}\right)y^2 + 8y + \left(\frac{24}{7}\right) = 0$$

$$\Rightarrow 16y^2 + 56y + 24 = 0$$

$$\Rightarrow 2y^2 + 7y + 3 = 0$$

$$\Rightarrow 2y^2 + y + 6y + 3 = 0$$

$$\Rightarrow y(2y + 1) + 3(2y + 1) = 0$$

$$\Rightarrow (2y + 1)(y + 3) = 0$$

$$\Rightarrow -\frac{1}{2}, -3$$

67. (3) I. $x^2 - 15x + 44 = 0$

$$\Rightarrow x^2 - 4x - 11x + 44 = 0$$

$$\Rightarrow x(x - 4) - 11(x - 4) = 0$$

$$\Rightarrow (x - 4)(x - 11) = 0$$

$$\Rightarrow x = 4, 11$$

II. $y^2 - 8y + 16 = 0$

$$\Rightarrow y^2 - 4y - 4y + 16 = 0$$

$$\Rightarrow y(y - 4) - 4(y - 4) = 0$$

$$\Rightarrow (y - 4)(y - 4) = 0$$

$$\Rightarrow y = 4$$

Hence, $x \geq y$

68. (1) I. $4x^3 - 3x^3 = 125$

$$\Rightarrow x^3 = 125$$

$$\Rightarrow x = 5$$

II. $\sqrt{121}y^2 - 15y + \sqrt{16} = 0$

$$\Rightarrow 11y^2 - 15y + 4 = 0$$

$$\Rightarrow 11y^2 - 11y - 4y + 4 = 0$$

$$\Rightarrow 11y(y - 1) - 4(y - 1) = 0$$

$$\Rightarrow (11y - 4)(y - 1) = 0$$

$$\Rightarrow y = \frac{4}{11}, 1$$

Hence, $x > y$

69. (5) I. $2x^2 - \frac{13}{3}x - \frac{2}{3} = 5x + \frac{8}{3}$

$$\Rightarrow 2x^2 - \frac{13}{3}x - \frac{2}{3} - 5x - \frac{8}{3} = 0$$

$$\Rightarrow 2x^2 - \left(\frac{13}{3} + 5\right)x - \left(\frac{2}{3} + \frac{8}{3}\right) = 0$$

$$\Rightarrow 2x^2 - \left(\frac{28}{3}\right)x - \left(\frac{10}{3}\right) = 0$$

$$\Rightarrow 6x^2 - 28x - 10 = 0$$

$$\Rightarrow 3x^2 - 14x - 5 = 0$$

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

$$\Rightarrow x(3x + 1) - 5(3x + 1) = 0$$

$$\Rightarrow (3x + 1)(x - 5) = 0$$

$$\Rightarrow x = 5, -\frac{1}{3}$$

II. $2y^2 - \frac{92}{9}y - \frac{10}{3} = \frac{46}{9}y + 2$

$$\Rightarrow 2y^2 - \frac{92}{9}y - \frac{10}{3} - \frac{46}{9}y - 2 = 0$$

$$\Rightarrow 2y^2 - \left(\frac{92}{9} + \frac{46}{9}\right)y - \left(\frac{10}{3} + 2\right) = 0$$

$$\Rightarrow 2y^2 - \left(\frac{138}{9}\right)y - \left(\frac{16}{3}\right) = 0$$

$$\Rightarrow 2y^2 - \left(\frac{46}{3}\right)y - \left(\frac{16}{3}\right) = 0$$

$$\begin{aligned} \Rightarrow 6y^2 - 46y - 16 &= 0 \\ \Rightarrow 3y^2 - 23y - 8 &= 0 \\ \Rightarrow 3y^2 + y - 24y - 8 &= 0 \\ \Rightarrow y(3y + 1) - 8(3y + 1) &= 0 \\ \Rightarrow (y - 8)(3y + 1) &= 0 \\ \Rightarrow y = 8, -\frac{1}{3} \end{aligned}$$

70. (3) I. $3x^2 - 19x - 16x = 0$
 $3x^2 - 3x - 16x + 16 = 0$
 $\Rightarrow 3x(x - 1) - 16(x - 1) = 0$
 $\Rightarrow (x - 1)(3x - 16) = 0$
 $\Rightarrow x = 1, \frac{16}{3}$

II. $4y^2 - 20y = -16$
 $\Rightarrow 4y^2 - 20y + 16 = 0$
 $\Rightarrow 4y^2 - 4y - 16y + 16 = 0$
 $\Rightarrow 4y(y - 1) - 16(y - 1)$
 $\Rightarrow (4y - 16)(y - 1)$
 $\Rightarrow y = 4, 1$
Hence, $x \geq y$

ENGLISH LANGUAGE

(86-90) :

86. (3) "will be going" replace with 'went', because sentence is in 'Past Tense'.
87. (2) 'as like' replace with 'like'.
88. (5) 'No error'.
89. (4) 'to be performed (passive)' replace with 'to perform' (active).
90. (1) 'To make' replace with 'make'.

VOCABULARIES

Words	Meaning in English	Meaning in Hindi
Altruistic	concerned with the welfare of people	लोगों के भलाई से संबंधित
Ulterior motive	a hidden or wrong motive	गलत उद्देश्य
Eternal	not having any end	शाश्वत, नही समाप्त होने वाला
Predispose	to influence someone in having an attitude	किसी मनोवृत्ति के लिए प्रेरित करना
Speculative	involving the risk of loss (investment)	जिसमें हानि की संभावना हो
Precarious	dependent on chance: uncertain/dangerous	संदिग्ध/खतरे से भरा
Belittle	to humiliate, to insult	अपमानित करना
Inspid	dull, lifeless	सुस्त, निरस
Arboreal	(chiefly of animal) living in Tree, Arboreal	वृक्ष-संबंधी
Proximity	nearness in space, time or relationship	निकटता/सामीप्य
Cardiovascular	relating to heart and blood vessels	हृदय तथा रक्त वाहिकाओं से संबंधी
Illustrated	to make clear by giving or by serving as an example or instance	उदाहरण सहित स्पष्ट करना
Spatial	relating to space	स्थानिक/स्थान संबंधी
Counteract	act against (something) in order to reduce its force or neutralize it	प्रतिक्रिया
Wiggle	with twisting and turning movements	लचीलापन

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Campus

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IBPS PO PHASE - I - 102 (ANSWER KEY)

- | | | | |
|---------|---------|---------|----------|
| 1. (3) | 26. (5) | 51. (2) | 76. (5) |
| 2. (4) | 27. (5) | 52. (1) | 77. (4) |
| 3. (2) | 28. (3) | 53. (5) | 78. (1) |
| 4. (2) | 29. (5) | 54. (4) | 79. (2) |
| 5. (1) | 30. (1) | 55. (5) | 80. (4) |
| 6. (1) | 31. (4) | 56. (4) | 81. (3) |
| 7. (1) | 32. (3) | 57. (1) | 82. (5) |
| 8. (5) | 33. (3) | 58. (3) | 83. (4) |
| 9. (3) | 34. (3) | 59. (2) | 84. (2) |
| 10. (3) | 35. (4) | 60. (4) | 85. (1) |
| 11. (2) | 36. (4) | 61. (3) | 86. (3) |
| 12. (3) | 37. (2) | 62. (4) | 87. (2) |
| 13. (3) | 38. (1) | 63. (1) | 88. (5) |
| 14. (1) | 39. (2) | 64. (2) | 89. (4) |
| 15. (5) | 40. (4) | 65. (1) | 90. (1) |
| 16. (1) | 41. (1) | 66. (5) | 91. (2) |
| 17. (2) | 42. (3) | 67. (3) | 92. (3) |
| 18. (4) | 43. (2) | 68. (1) | 93. (1) |
| 19. (4) | 44. (4) | 69. (5) | 94. (4) |
| 20. (2) | 45. (1) | 70. (3) | 95. (2) |
| 21. (3) | 46. (5) | 71. (2) | 96. (3) |
| 22. (5) | 47. (4) | 72. (2) | 97. (5) |
| 23. (1) | 48. (3) | 73. (2) | 98. (3) |
| 24. (3) | 49. (1) | 74. (1) | 99. (4) |
| 25. (3) | 50. (2) | 75. (4) | 100. (1) |

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

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