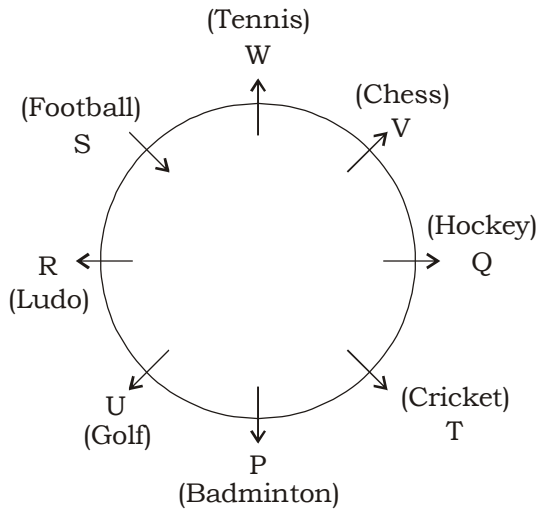


IBPS PO SPECIAL PHASE - I MOCK TEST - 277 (SOLUTION)

REASONING

(1 - 6):

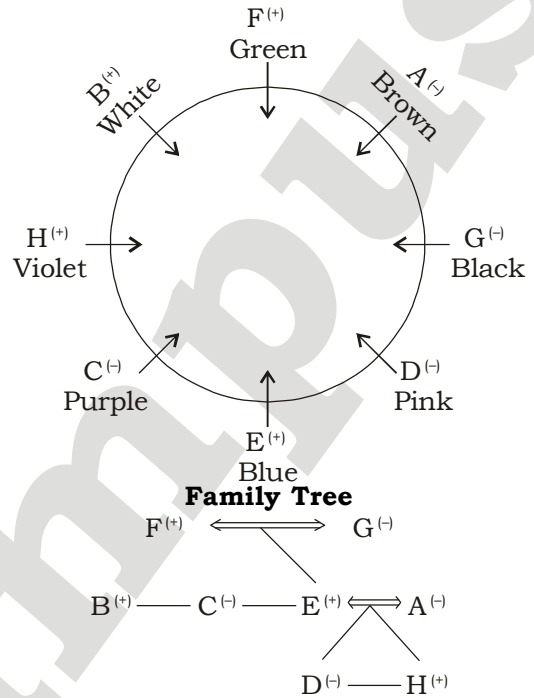


1. (2) 2. (3) 3. (3) 4. (1)
5. (4) 6. (4)

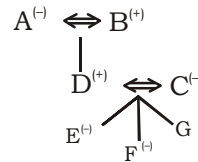
(7-11):

7. (4) Combining all statements
 $T > N < M$
 I. $T > M \rightarrow$ False
 $O \geq N < T$
 II. $O \geq T \rightarrow$ False
 Neither conclusion I nor II is true.
8. (1) Combining all statements
 $Y \leq B > A$
 I. $Y < A \rightarrow$ False
 $T \geq B = U \geq P$
 II. $T > P \rightarrow$ Doubt
 Neither conclusion I nor II is true.
9. (5) Combining all statements
 $A > K > M$
 I. $A > M \rightarrow$ True
 $I \leq P = K \geq O$
 II. $O \leq I \rightarrow$ False
 Only conclusion I is true.
10. (4) Combining all statements
 $S < K \geq Z > P \geq O \leq I$
 I. $O < S \rightarrow$ False
 II. $K > P \rightarrow$ True
 Only conclusion II is true.
11. (4) Combining all statements
 $R > Z \geq P < Q$
 I. $R \geq P \rightarrow$ True
 II. $Z \geq Q \rightarrow$ False
 Only conclusion I is true.

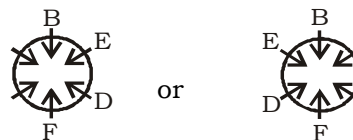
(12-16):



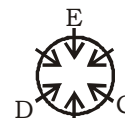
12. (1) 13. (2) 14. (2)
 15. (2) 16. (3)
 17. (5) From both I and II



- Hence, A is grandmother of E
18. (5) From both I and II.
 $T \ V \ S \ X \ P \ _ \ Q$
 $Q \ _ \ P \ X \ S \ V \ T$
 Hence X is the middle of the row.
19. (2) From I. Possible diagrams:



Hence I alone is not sufficient to answer the question.
 From II.

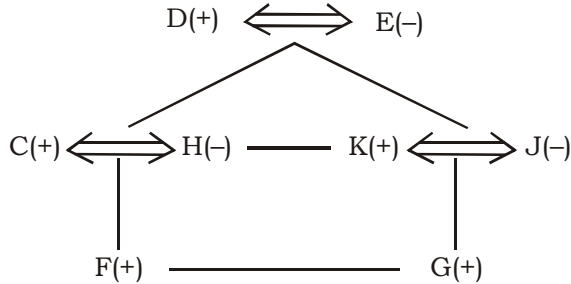


Hence, C is second to the left of E
 Hence II alone is sufficient to answer the question.

20. (5) **From both I and II.**
 $Z > Y > V = W > X$
 $(x + 9) (x + 5) (x + 5)$
 Hence, Z scores the highest runs.

21. (5) Really

(22-23):



22. (3)

23. (4)

(24-28):

Floor	Person	Watch
7	C	Rado
6	O	Fastrack
5	R	Titan
4	A	Sonata
3	Q	Rolex
2	D	Casio
1	P	Optima

24. (4)

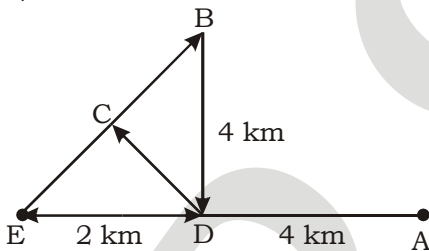
25. (3)

26. (1)

27. (2)

28. (3)

(29-30):



29. (4)

30. (4)

(31-35):

Z, W/Q, Y, A, R, C, X, B, S, P, D, Q/W

31. (4)

32. (5)

33. (1)

34. (5)

35. (4)

MATHS

36. (3) $[(\sqrt{530} \times 36.003) \div 47.987] \times ?$
 $= 5863.10376$

$$\therefore ? \approx \frac{5863}{(\sqrt{529} \times 36) \div 48} = \frac{5863}{(23 \times 36) \div 48}$$

$$\approx 340$$

37. (1) $? = (77.987\% \text{ of } 358) + (68.55\% \text{ of } 729)$

$$? \approx \left(\frac{78}{100} \times 358\right) + \left(\frac{69}{100} \times 725\right)$$

$$\approx 280 + 500 = 780$$

38. (4) $\sqrt{624.995} + (4.9989)^2$

$$= ? \div \frac{1}{4.9900865}$$

or, $\sqrt{625} + (5)^2 \approx ? \div \frac{1}{5}$

$$\therefore ? \approx \frac{1}{5} (25 + 25) = 10$$

39. (2) $? = 989.001 + 1.00982 \times 76.792$

$$\approx 990 + 1 \times 76.8 = 1066.8 \approx 1070$$

40. (5) $(?)^2 = 63.9872 \times 9449.8780 \div 243.0034 \approx$

$$64 \times 9450 \div 243 \approx 64 \times 39 = 2496$$

Now, $(?)^2 \approx 2496$

$$\therefore ? \approx 50$$

41. (2) Let distance be x km.

Then, $\frac{x}{5-3} + \frac{x}{5+3} = 7.5$

or, $\frac{x}{2} + \frac{x}{8} = 7.5$

or, $5x = 7.5 \times 8$

$$\therefore x = 1.5 \times 8 = 12 \text{ km}$$

42. (4) Let $7x$ litres be taken out.

Then, $\frac{50-5x+7}{20-2x+7} + \frac{7}{4}$

or, $4 \times (57 - 5x) = 7 \times (27 - 2x)$

or, $228 - 20x = 189 - 14x$

or, $6x = 39$

$$\therefore x = \frac{39}{6} = 6.5 \text{ litres } 6$$

$$\therefore \text{Total mixture taken out} = 5x + 2x = 7x$$

$$= 6.5 \times 7 = 45.5 \text{ litres}$$

43. (5) $P + \text{SI for 8 years} = 13003.2$

$P + \text{SI for 5 years} = 10962$

Now, $\text{SI for 3 years} = ₹ 2041.2$

There for $\text{SI for 5 years} = \frac{2041.2}{3} \times 5$

$$= ₹ 3402$$

$$\therefore P = 10962 - 3402 = ₹ 7560$$

and $\text{Rate} = \frac{3402 \times 100}{7560 \times 5} = 9\% \text{ per annum}$

44. (3) Total no. of mobiles = $2 + 6 + 8 = 16$

Probability that Lenovo is drawn in one draw

$$= \frac{8}{2+6+8} = \frac{8}{16} = \frac{1}{2}$$

Required probability of drawing 3 mobiles with replacement such that all the mobiles

are Lenovo = $= \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} = \frac{1}{8}$

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45.(4) There are five letters in the word MOUSE in which there are 3 vowels E, O and U.
Reqd no. of arrangements = ${}^3C_2 \times 2! \times 3!$
 $= 3 \times 2 \times 6 = 36$

46.(5) The average number of women who study in various streams in ITI from MP in 2015

$$= \frac{245 + 685 + 1750 + 140 + 160}{5}$$

$$= \frac{2980}{5} = 596$$

The average number of women who study from UP in 2016

$$= \frac{110 + 280 + 1050 + 100 + 160}{5}$$

$$= \frac{1700}{5} = 340$$

$$\therefore \text{Reqd difference} = 596 - 340 = 256$$

47.(2) Reqd % = $\frac{3675 - 2980}{2980} \times 100$

$$= \frac{695}{2980} \times 100 = 23.32\%$$

48.(1) Reqd ratio = $\frac{1675}{3675} = 67 : 147$

49.(5) Reqd % = $\frac{3675}{1700} \times 100 = \frac{3675}{17}$

$$= 216.17\% \approx 216$$

50.(1) Reqd sum of average numbers

$$= \frac{1}{5} \{1675 + 3675\}$$

$$= \frac{1}{5} \times 5350 = 1070$$

51.(3) The series is :

$$3 \times 3 + 5 = 14,$$

$$14 \times 4 - 6 = 50,$$

$$50 \times 5 + 7 = \mathbf{257},$$

$$257 \times 6 - 8 = 1534,$$

$$1534 \times 7 + 9 = 10747,$$

52.(2) The series is

$$\begin{array}{cccccc} & +(5)^3 & +(6)^2 & +(7)^3 & +(8)^2 & +(9)^3 \\ \hline 543 & 668 & 704 & 1047 & \mathbf{1111} & 1840 \end{array}$$

53.(4) Add the previous number to get the next number.

$$\text{ie } 71 + 78 = 149,$$

$$149 + 78 = 227,$$

$$\begin{array}{l} 227 + 149 = 376, \\ 376 + 227 = 603, \\ 603 + 376 = \mathbf{979}, \dots \end{array}$$

or,

$$\begin{array}{cccccc} & +71 & +78 & +149 & +227 & +376 \\ \hline 78 & 149 & 227 & 376 & 603 & \mathbf{979} \end{array}$$

54.(5) The series is

$$\begin{array}{cccccc} & \times 0.5 & \times 1.5 & \times 2.5 & \times 3.5 & \times 4.5 \\ \hline 88 & 44 & \mathbf{66} & 165 & 577.5 & 2598.75 \end{array}$$

55.(1) The series is $3 \times 2 + 3 = 9,$

$$9 \times 3 + 4 = 31,$$

$$31 \times 4 + 5 = 129,$$

$$129 \times 5 + 6 = 651,$$

$$651 \times 6 + 7 = 3913, \dots$$

56.(3) Total number of persons employed in

$$\text{Cement sector} = 49 \times 5 = 245 \text{ thousand}$$

$$\text{Number of persons employed in Cement}$$

$$\text{sector in 2008} = 245 - [(3 \times 18) + 26.75 +$$

$$45.72 + 61] = 57.5 \text{ thousand}$$

57.(4) The number of person employed in Plastic

$$\text{in sector in 2009} = 600000 - (61000 +$$

$$24500 + 10500 + 480000)$$

$$= 600000 - 576000 = 24000$$

58.(2) The number of employees in Other sectors

$$\text{in 2005} = 150 - (26.65 + 18 + 11 + 35.5)$$

$$= 150 - 91.15 = 58.85$$

$$\text{The total number of employees in Other}$$

$$\text{sector} = 58.85 + 86 + 142.75 + 179.15 +$$

$$480 = 946.75$$

$$\therefore \text{Reqd difference} = 946.75 - 18 \times 5$$

$$= 946.75 - 90$$

$$= 856.75 \text{ thousands}$$

59.(2) Reqd %

$$= \frac{108.85 + 86 + 142.75 + 179.15 + 480}{11 + 16 + 26.75 + 32.5 + 24.5} \times 100$$

$$= \frac{996.75}{110.75} \times 100 = 900\%$$

60.(5) The total number of employees in 2008 =

$$57.6 + 8.25 + 32.5 + 22.5 + 179.15 = 300$$

$$\text{The number of employees in 2009} = 61 +$$

$$24 + 24.5 + 10.5 + 480 = 600$$

$$\text{Reqd \%} = \frac{600 - 300}{300} \times 100$$

$$= \frac{300}{300} \times 100 = 100\%$$

61.(2) Reqd selling price = $\frac{5400}{108} \times 118 = 5900$

62.(1) Reqd price = $\frac{9}{84} \times 105 = 11.25$

63.(4) Let the lowest number be x
 $x + x + 1 + x + 2 = 507$
 or, $3x = 507 - 3$

$$x = \frac{504}{3} = 168$$

$$45\% \text{ of } 168 = \frac{45}{3} = 168 = 75.6$$

Note: We should know that average of an AP series is equal to the middle number of the series. Hence three consecutive

numbers are in AP. So, average = $\frac{507}{3} =$

169 is the middle number. Hence lowest number is 168.

64.(3) Let the two numbers be A and B.

Then, A	B
A + 3B = 49 ... (i) $\times 2$	
4A + 2B = 54 ... (ii) $\times 3$	

Solving (i) - (ii), we get

$$A = 8, B = 11$$

Hence the larger number is 11.

65.(2)

	Rohit	Atul
2 years ago	x	$5x$
Present age	$x + 2$	$5x + 2$

Difference between Ronit's age and Atul's age will always be 24 years.

$$\text{So, } 4x = 24$$

$$\therefore x = 6$$

$$\therefore \text{Sum of the present ages} = x + 2 + 5x + 2 + 6x + 4 = 6 \times 6 + 4 = 40 \text{ years}$$

66. (2) I. $4x^2 - 32x + 63 = 0$
 $\Rightarrow 4x^2 - 14x - 18x + 63 = 0$
 $\Rightarrow 2x(2x - 7) - 9(2x - 7) = 0$
 $\Rightarrow (2x - 7)(2x - 9) = 0$

$$\Rightarrow x = \frac{7}{2} \text{ or } \frac{9}{2}$$

II. $2y^2 - 11y + 15 = 0$
 $\Rightarrow 2y^2 - 6y - 5y + 15 = 0$
 $\Rightarrow 2y(y - 3) - 5(y - 3) = 0$
 $\Rightarrow (y - 3)(2y - 5) = 0$

$$\Rightarrow y = 3 \text{ or } \frac{5}{2}$$

Clearly, $x > y$

67. (2) I. $x^3 = (216)^{\frac{1}{3} \times 3} = 216$

$$\Rightarrow x = \sqrt[3]{216} = 6$$

II. $6y^2 = 150$

$$\Rightarrow y^2 = \frac{150}{6} = 25$$

$$\Rightarrow y = \pm 5$$

Clearly, $x > y$

68. (1) I. $12x^2 + 17x + 6 = 0$
 $\Rightarrow 12x^2 + 9x + 8x + 6 = 0$
 $\Rightarrow 3x(4x + 3) + 2(4x + 3) = 0$
 $\Rightarrow (4x + 3)(3x + 2) = 0$

$$\Rightarrow x = -\frac{3}{4} \text{ or } -\frac{2}{3}$$

II. $6y^2 + 5y + 1 = 0$
 $\Rightarrow 6y^2 + 2y + 3y + 1 = 0$
 $\Rightarrow 2y(3y + 1) + 1(3y + 1) = 0$
 $\Rightarrow (3y + 1)(2y + 1) = 0$

$$\Rightarrow y = -\frac{1}{3} \text{ or } -\frac{1}{2}$$

Clearly, $x < y$

69. (3) I. $20x^2 + 9x + 1 = 0$
 $\Rightarrow 20x^2 + 5x + 4x + 1 = 0$
 $\Rightarrow 5x(4x + 1) + 1(4x + 1) = 0$
 $\Rightarrow (4x + 1)(5x + 1) = 0$

$$\Rightarrow x = -\frac{1}{4} \text{ or } -\frac{1}{5}$$

II. $30y^2 + 11y + 1 = 0$
 $\Rightarrow 30y^2 + 6y + 5y + 1 = 0$
 $\Rightarrow 6y(5y + 1) + 1(5y + 1) = 0$
 $\Rightarrow (5y + 1)(6y + 1) = 0$

$$\Rightarrow y = -\frac{1}{5} \text{ or } -\frac{1}{6}$$

Clearly, $x \leq y$

70. (4) I. $x^2 + 17x + 72 = 0$
 $\Rightarrow x^2 + 8x + 9x + 72 = 0$
 $\Rightarrow x(x + 8) + 9(x + 8) = 0$
 $\Rightarrow (x + 9)(x + 8) = 0$
 $\Rightarrow x = -9 \text{ or } -8$

II. $y^2 + 19y + 90 = 0$
 $\Rightarrow y^2 + 10y + 9y + 90 = 0$
 $\Rightarrow y(y + 10) + 9(y + 10) = 0$
 $\Rightarrow (y + 9)(y + 10) = 0$
 $\Rightarrow y = -9 \text{ or } -10$

Clearly, $x \geq y$

ENGLISH LANGUAGE

84. (3) Replace 'soived' with 'solve'
 85. (1) Replace 'stood' with 'standing'
 86. (4) Replace 'each other' with 'one another'
 87. (4) Replace 'asked' with 'asking'
 88. (2) Replace 'of' with 'by'
 89. (1) The correct spelling is 'region'
 90. (3) The appropriate word should be 'life'
 91. (1) The appropriate word should be 'was'
 92. (3) The correct spelling is 'sold'
 93. (2) The appropriate word should be 'rise'

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IBPS PO SPECIAL PHASE -I MOCK TEST - 277 (ANSWER KEY)

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