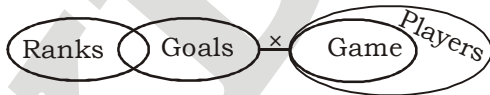


IBPS PO SPECIAL PHASE - I MOCK TEST - 265 (SOLUTION)

REASONING

1. (1) **Given statements :**
Combining both statements, we get
 $L < P \geq N = S < R < Q$
Thus, we can't compare L and Q. Hence II ($L \geq Q$) is not true.
 $T > L$ is true.
Hence I is true.
2. (5) **Given statements :**
Combining both statements, we get
 $M \leq R \leq N = B < S \leq K$
Thus, $K > R$ is true. Again, $M < S$ is true.
Hence both I and II are true.
3. (1) **Given statements :**
Combining both statements, we get
 $W > U = T \geq B$
Thus, $W > T$ is true. Hence I is true.
Again from (i), we can't compare U and J.
Hence II ($J > U$) is not true. Hence only I is true.
4. (4) **Given statements :**
Combining (i) and (ii) get
 $B < U = T > X = P$
Thus, we can't compare B and P.
Hence I ($B \geq P$) is not true.
Again, from (i), we can't compare W and M.
Hence II ($M \leq W$) is not true. So, neither conclusion I nor II is true.
5. (5) **Given statements :**
Combining both statements, we get
 $G \geq H > K \geq L > R \geq Q$
Thus, $G > R$ is true.
Again, $H > Q$ is true. Hence both I and II are true.

(6-7) :



6. (5) **Conclusion :**
I. True II. True
7. (2) **Conclusion :**
I. Can't Say II. True

(8-9) :

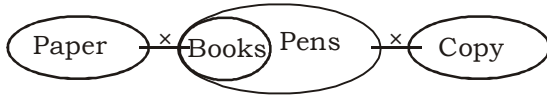


8. (5) **Conclusions :**
I. True II. True

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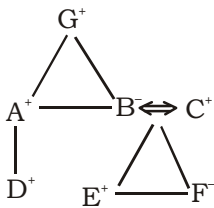
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9. (2) **Conclusions :**
I. Can't say II. True
10. (2) **Conclusions :**



- I. Can't say II. True

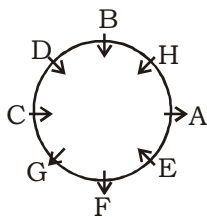
(11-12) :



Three fathers (G, A, C), two brothers (A and E), two sisters (B and F), one husband (C), one wife (B), two brothers-in-law (A and C), two daughters (B and F), three sons (A, D and E), three cousins (D, E and F), two nephews (D and E), one grandfather (G) and one niece (F)

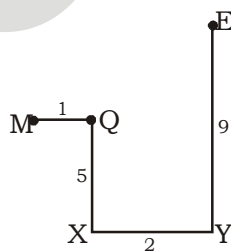
11. (2) 12. (1) 13. (3)

(14 - 18) :



14. (2) 15. (4) 16. (1)
17. (3) 18. (4)

(19-20) :



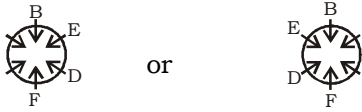
19. (5) 3 km 20. (4)

(21-25) :

Person	Subject	Year
P	Marathi	2 nd
Q	Geography	1 st
R	Economics	1 st
S	Chemistry	3 rd
T	Biology	2 nd
U	Physics	1 st
V	Mathematics	2 nd
W	English	3 rd

21. (2) 22. (4) 23. (5) 24. (3) 25. (1)

26. (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.

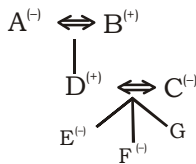
27. (5) **From both I and II.**

$$Z > Y > V = W > X$$

$$(x + p)(x + 5)(x + 5)$$

Hence Z scores the highest runs.

28. (5) From both I and II



Hence, A is grandmother of E

29. (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.

30. (1)

(31-35):

In every step, words whose first letter is a vowel, are arranged according to dictionary from left to right in descending order and words whose first letter is a constant are arranged from right to left in ascending order.

Input : gem stat ace cast omit fan rate uncut era input

Step I : uncut gem stat ace omit fan rate era input cast

Step II : uncut omit gem stat ace rate era input fan cast

Step III : uncut omit input stat ace rate era gem fan cast

Step IV : uncut omit input era stat ace rate gem fan cast

Step V : uncut omit input era ace stat rate gem fan cast

31. (3) 32. (1) 33. (1) 34. (4) 35. (5)

MATHS

36. (4) $? = (4576 + 3286 + 5639) \div (712 + 415 + 212) = 13501 \div 1339 = 10.08 \approx 10$

37. (5) $? = 675.456 + 12.492 \times 55.671$

$$\approx 675 + 12.5 \times 56$$

$$= 675 + 700 = 1375 \approx 1371$$

38. (1) $? \approx (447)^2 = 199809 \approx 200000$

39. (3) $? = \frac{4374562 \times 64}{7777} = 35999.99 \approx 36000$

40. (2) $? = \frac{659 \times 872}{100} \div 543 = 10.58 \approx 11$

41. (3) Males in $D_1 = \frac{9000 \times 18}{100} \times \frac{7}{20} = 567$

Similarly, $D_2 = 609, D_3 = 488, D_4 = 726$

$D_5 = 351, D_6 = 969, D_7 = 240$

\therefore Total number of males = 3950

42. (4) Total employees in D_3

$9000 \times \frac{12.2}{100} = 1098$

Females in $D_3 = 1098 \times \frac{5}{9} = 610$

\therefore Reqd % = $\frac{610}{1098} \times 100 = 55.55\% \approx 55.5\%$

43. (5) Ratio of males to females in Department D_7
= M : F = 8 : 13

\therefore Reqd % = $\frac{(13-8)}{8} \times 100 = 62.5\%$

44. (3) $D_1 = 9000 \times \frac{18}{100} = 1620$

Male : Female = 7 : 13

\therefore Difference = $1620 \times \frac{(13-7)}{20} = 486$

Similarly, $D_2 = 1305 \times \frac{1}{15} = 87$

$D_3 = 1098 \times \frac{1}{9} = 122$

$D_4 = 1485 \times \frac{1}{45} = 33$

$D_5 = 810 \times \frac{4}{30} = 108$

$D_6 = 2052 \times \frac{2}{36} = 114$

$D_7 = 630 \times \frac{5}{21} = 150$

45. (3) Females in $D_1 = \frac{9000 \times 18}{100} \times \frac{13}{20} = 1053$

Similarly, $D_2 = 696, D_3 = 610, D_4 = 759,$

$D_5 = 459, D_6 = 1083, D_7 = 390$

\therefore Total females = $1053 + 696 + 610 + 759 + 459 + 1083 + 390 = 5050$

\therefore Reqd % = $\frac{5050}{9000} \times 100 = 56.11\%$

46. (1) The given number series is based on the following pattern.

$1^1 = 1; 2^2 = 4$

$3^3 = 27; 4^4 = 256$

$5^5 = 3125; 6^6 = 46656$

Hence 46658 is the wrong number.

47. (4) The given number series is based on the following pattern.

$$18000 \div 5 = 3600$$

$$3600 \div 5 = 720$$

$$720 \div 5 = 144 \neq 142.2$$

$$144 \div 5 = 28.8$$

$$28.8 \div 5 = 5.76$$

Hence 142.2 is the wrong number.

48. (5) The given number series is based on the following pattern.

$$12 + 15^2 = 12 + 225 = 237$$

$$237 + 13^2 = 237 + 169 = 406$$

$$406 + 11^2 = 406 + 121 = 527$$

$$527 + 9^2 = 608 = 527 + 81 = 608$$

$$608 + 7^2 = 608 + 49 = 657$$

Hence 604 is the wrong number.

49. (3) The given number series is based on the following pattern.

$$3 \times 7 + 2 \times 7 = 21 + 14 = 35$$

$$35 \times 6 + 3 \times 6 = 210 + 18$$

$$= 228 \neq 226$$

$$228 \times 5 + 4 \times 5 = 1140 + 20 = 1160$$

$$1160 \times 4 + 5 \times 4 = 4640 + 20 = 4660$$

$$4660 \times 3 + 6 \times 3 = 13980 + 18 = 13998$$

Hence 226 is the wrong number

50. (2) The given number series is based on the following pattern.

$$18 \times 7 - 7 = 126 - 7 = 119$$

$$119 \times 6 - 6 = 714 - 6 = 708$$

$$708 \times 5 - 5 = 3540 - 5 = 3535 \neq 3534$$

$$3535 \times 4 - 4 = 14140 - 4 = 14136$$

$$14136 \times 3 - 3 = 42405$$

Hence 3534 is the wrong number.

51. (2) Using Alligation Method,

Sugar I **Sugar II**

5.75 4.50

~~5.50~~

$$5.50 - 4.50 \quad 5.75 - 5.50$$

$$= 1.00 \quad = 0.25$$

i.e., 4 : 1

Hence, the required quantity of Sugar I = $\frac{75}{1} \times 4 = 300$ kg

52. (2) The numbers of points term scored
= $8 \times 84 - 92 + 85 = 672 - 92 + 85 = 665$

53. (2) $SI = \frac{15000 \times 9 \times 2}{100} = ₹ 2700$

$$CI = 12000 \left[\left(1 + \frac{8}{100} \right)^2 - 1 \right] = 12000 \left[\left(\frac{27}{25} \right)^2 - 1 \right]$$

$$= 12000 \left[\frac{729 - 625}{625} \right] = 12000 \times \frac{104}{625} = ₹ 1996.8$$

∴ Total interest earned = ₹ (2700 + 1996.8) = ₹ 4696.8

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54. (3) Total marked Price of article = $25 \times 45 = ₹ 1125$

Selling Price (Giving 10% discount) = $\frac{90}{100}$ of 1125 = ₹ 1012.5

$$CP = \frac{1012.50}{150} \times 100 = ₹ 675$$

Now the selling price is ₹1125 then profit = $1125 - 675 = ₹ 450$

$$\% \text{ profit} = \frac{450}{675} \times 100 = 66\frac{2}{3}\%$$

55. (2) Let the length of the piece be x m

Cost of price = ₹ 35

Then, price per metre = ₹ $\frac{35}{x}$

$$(x + 4) \left(\frac{35}{x} - 1 \right) = 35$$

$$x = 10 \text{ m}$$

56. (3) Annual sales of all companies in FY 2006–07 = $(150 + 200 + 225 + 250 + 300) = 1125$ lakh
Annual sales of all companies in FY 2011–12 = $(325 + 350 + 400 + 450 + 500) = ₹ 2025$ lakh

$$\therefore \text{Percentage increase} = \frac{2025 - 1125}{1125} \times 100 = 80\%$$

57. (4) Honda → Sales in FY 2006–07 = 300 lakh and in FY 2011–12 = 400 lakh

$$\% \text{ increase in sales} = \frac{400 - 300}{300} \times 100 = 33.33\%$$

Maruti → Sales in the FY 2006–07 = 250 lakh and in FY 2011–12 = 500 lakh

$$\% \text{ increase in sales} = \frac{500 - 250}{250} \times 100 = 100\%$$

Tata → Sales in FY 2006–07 = 200 lakh and in FY 2011–12 = 325 lakh

$$\% \text{ increase in sales} = \frac{325 - 200}{200} \times 100 = 62.5\%$$

Hyundai → Sales in FY 2006–07 = 225 lakh and in FY 2011–12 = 350 lakh

$$\% \text{ increase in sales} = \frac{350 - 225}{225} \times 100 = 55.55\%$$

Toyota → Sales in FY 2006–07 = 150 lakh and in FY 2011–12 = 450 lakh

$$\% \text{ increase in sales} = \frac{450 - 150}{150} \times 100 = 200\%$$

Hence, Toyota recorded highest percentage increase in sales.

58. (2) Average sales of all companies:

$$\text{In FY 2006–07} = \frac{1}{5} \times (150 + 200 + 225 + 250 + 300) = 225$$

$$\text{In FY 2007–08} = \frac{1}{5} \times (200 + 250 + 300 + 350 + 450) = 310$$

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$$\text{In FY 2008-09} = \frac{1}{5} \times (150 + 250 + 300 + 325 + 350) = 275$$

$$\text{In FY 2009-10} = \frac{1}{5} \times (100 + 250 + 275 + 375 + 475) = 295$$

$$\text{In FY 2010-11} = \frac{1}{5} \times (200 + 250 + 300 + 400 + 450) = 320$$

$$\text{In FY 2011-12} = \frac{1}{5} \times (325 + 350 + 400 + 450 + 500) = 405$$

∴ Average minimum sales is in FY 2006-07.

59. (3) Total sales of Hyundai and Maruti in FY 2006-07 = (225 + 250) = 475 lakh
Total sales of Tata and Honda in FY 2006-07 = (200 + 300) = 500

$$\text{Reqd\%} = \frac{500 - 475}{500} \times 100 = \frac{25}{500} \times 100 = 5\% \text{ less}$$

Hence, total sale of Maruti and Hyundai is 5% less than the total sales of Tata and Honda.

60. (4) Total sale of Honda in 2009-10 = 375 Total sale of Toyota in 2009-10 = 250

$$\therefore \text{Reqd \%} = \frac{375 - 250}{250} \times 100 = 50\%$$

61. (2) Time taken in walking one way + riding other way = 6 hours 35 minutes ... (i)
Time taken in riding both ways = 4 hours 35 minutes ... (ii)

By equation (i) × 2 - (ii),

$$2 \times \text{Time taken in walking one way} \\ = 13 \text{ hours } 10 \text{ minutes} - 4 \text{ hours } 35 \text{ minutes} = 8 \text{ hours } 35 \text{ minutes}$$

62. (1) 12 men can complete the work in 36 days.

12 × 36 men can complete the work in 1 day.

Again,

18 women can complete the work in 60 days.

18 × 60 women can complete the work in 1 day.

Now, 12 × 36 men = 18 × 60 women

2 men = 5 women

Now, 8 men + 20 women = (4 × 5 + 20) women = 40 women

18 women complete the work in 60 days.

$$40 \text{ womens' } 20 \text{ days' work} = \frac{40 \times 20}{18 \times 60} = \frac{20}{27}$$

$$\therefore \text{Remaining work} = 1 - \frac{20}{27} = \frac{7}{27}$$

18 × 60 women do 1 work in 1 day.

$$1 \text{ woman does} = \frac{1}{18 \times 60} \text{ Work in 1 day}$$

$$1 \text{ woman does in 4 days} = \frac{4}{18 \times 60} = \frac{1}{18 \times 15} \text{ Work}$$

$$\frac{1}{18 \times 15} \text{ work is done in 4 days by 1 woman}$$

$$\frac{7}{27} \text{ work is done in 4 days by} = \frac{18 \times 15 \times 7}{27} = 70 \text{ days}$$

63. (2) Number of balls = 6 + 5 + 8 = 19 Exhaustive number of cases = Ways of selecting 4 balls out

$$\text{of } 19 = {}^{19}C_4 = \frac{19 \times 18 \times 17 \times 16}{1 \times 2 \times 3 \times 4} = 3876$$

Favourable number of cases = Selecting 4 red balls or any two green balls out of the four =

$$6c_4 + 5c_2 \times 14c_2 = \frac{6 \times 5 \times 4 \times 3}{1 \times 2 \times 3 \times 4} + \frac{5 \times 4}{2} \times \frac{14 \times 13}{2} = 15 + 910 = 925$$

$$\therefore \text{ Required probability} = \frac{925}{3876}$$

64. (5) Required difference = $\left(\frac{7}{11} \times 2 - \frac{4}{11} \times 3 \right)$

$$= \frac{2}{11} \times 73689 = ₹ 13398$$

65. (2) Area of the square = 22 × 22 = 484 sq.cm

Circumference of circle = 484 cm

$$\pi \times \text{Dimater} = 484$$

$$\frac{22}{7} \times \text{Dimater} = 484$$

$$\text{Dimater} = \frac{484}{22} \times 7 = 154 \text{ cm}$$

Lenght of rectangle = 2 × 154 = 308 cm

2(lenght + breadht) = Perimeter of rectangle

$$2(308 + x) = 668 \quad [\text{Breadht} = x \text{ (let)}]$$

$$308 + x = \frac{668}{2} = 334$$

$$x = 334 - 308 = 26 \text{ cm}$$

66. (2) I. $4x^2 - 32x + 63 = 0$

$$4x^2 - 14x - 18x + 63 = 0$$

$$2x(2x - 7) - 9(2x - 7) = 0$$

$$(2x - 7)(2x - 9) = 0$$

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

II. $2y^2 - 11y + 15 = 0$

$$2y^2 - 6y - 5y + 15 = 0$$

$$2y(y - 3) - 5(y - 3) = 0$$

$$(y - 3)(2y - 5) = 0$$

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

Clearly, $x > y$

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

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

II. $6y^2 = 150$

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

$$y = \pm 5$$

Clearly, $x > y$

68. (1) I. $12x^2 + 17x + 6 = 0$

$$12x^2 + 9x + 8x + 6 = 0$$

$$3x(4x + 3) + 2(4x + 3) = 0$$

$$(4x + 3)(3x + 2) = 0$$

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

II. $6y^2 + 5y + 1 = 0$

$$6y^2 + 2y + 3y + 1 = 0$$

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

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

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

Clearly, $x < y$

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

$$20x^2 + 5x + 4x + 1 = 0$$

$$5x(4x + 1) + 1(4x + 1) = 0$$

$$(4x + 1)(5x + 1) = 0$$

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

II. $30y^2 + 11y + 1 = 0$

$$30y^2 + 6y + 5y + 1 = 0$$

$$6y(5y + 1) + 1(5y + 1) = 0$$

$$(5y + 1)(6y + 1) = 0$$

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

Clearly, $x \leq y$

70. (4) I. $x^2 + 17x + 72 = 0$

$$x^2 + 8x + 9x + 72 = 0$$

$$x(x + 8) + 9(x + 8) = 0$$

$$(x + 9)(x + 8) = 0$$

$$x = -9 \text{ or } -8$$

II. $y^2 + 19y + 90 = 0$

$$y^2 + 10y + 9y + 90 = 0$$

$$y(y + 10) + 9(y + 10) = 0$$

$$(y + 9)(y + 10) = 0$$

$$y = -9 \text{ or } -10$$

Clearly, $x \geq y$

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IBPS PO SPECIAL PHASE -I MOCK TEST - 265 (ANSWER KEY)

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