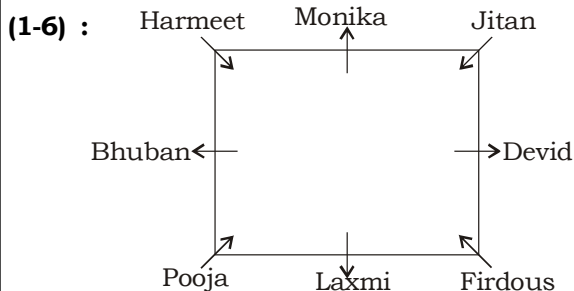


IBPS PO SPECIAL PHASE - I - 363 (SOLUTION)

REASONING



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

(7-11) :

Floor	Person	Car	Day
7	S	Ford	Wednesday
6	N	Scorpio	Monday
5	M	Mahindra	Tuesday
4	Q	Maruti	Friday
3	P	Swift	Sunday
2	R	Suzuki	Saturday
1	O	Nano	Thursday

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

12. (2) Vipin's : Javed = 4 : 3

Salaries 4x and 3x

From statement II

3x = ₹4500, x = ₹1500

Vipin's salary = 1500 × 4 = ₹6000

II alone is sufficient while I alone is not sufficient.

13. (3) From statement I

Weight of one Box = 5 × 4 = 20 kg

So weight of 10 Box = 200 kg

From statement II

Weight of 3 boxes – weight of 2 boxes = 20 kg

1 Box = 20 kg

So weight of 10 Boxes = 200 kg

Either I or II is sufficient.

14. (1) From statement I

Right or wrong – nik sa te

He is right – ro da nik

that is wrong – fe te ro

'or' code ⇒ Sa

From statement II

that right man - pa nik la

this or that - sa ne pa

Tell this there - ne ka re

'or' code → sa

Either I or II sufficient.

15. (5) Both I and II are sufficient to give the answer.

(16-20) :

Room no	Color	Person
1	Pink	Q or O and D
2	Blue	B or F and E
3	Black	Q or O and A
4	Green	B or F and C
5	White	RP
6	Yellow	MN

16. (4) 17. (4) 18. (2) 19. (5) 20. (4)

(21-25) :

@ → ≥ # → > \$ → = % → ≤ * → <

21. (1) $V = Y \geq Z \leq X > T$

I. $T > Z \rightarrow$ False

II. $X > Z \rightarrow$ False

III. $Z > Y \rightarrow$ False

None follow

22. (1) $R \geq J \leq F < E \leq M$

I. $M > J \rightarrow$ True

II. $F \leq M \rightarrow$ False

III. $M < R \rightarrow$ False

Only I follow.

23. (1) $H > R \geq L < W \leq F$

I. $H > L \rightarrow$ True

II. $F > L \rightarrow$ True

III. $H = F \rightarrow$ False

Only I and II follow

24. (3) $H > Q \geq F = M > K$

I. $H > K \rightarrow$ True

II. $Q > K \rightarrow$ True

III. $Q > M \rightarrow$ True

All I, II and III follow

25. (1) $D < Q = L > T < H$

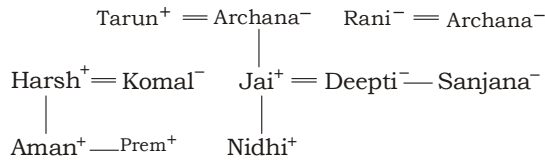
I. $D < L \rightarrow$ True

II. $L \geq H \rightarrow$ False

III. $H < L \rightarrow$ False

Only I follow

(26-28) :



26. (1) 27. (2) 28. (3)

(29-33) : In the term of height:

$$Q < U, R < U, R < S, T < S, T < S, U < T, P < T, U < P$$

$$\text{So, } R < U < T < S, Q < U, U < P < T$$

$$\text{Sequence : } Q < R < U < P < T < S \text{ or } R < Q < U < P < T < S$$

$$\text{Weight : } P < Q, P < R, Q < S, S < U$$

$$\text{So, } P < Q < S < U, P < R$$

Thus the sequence

$$P < R < Q < S < U$$

or

$$P < Q < R < S < U$$

or

$$P < Q < S < R < U$$

29. (3)

30. (1) Decending order of height

$$S > T > P > U > Q > R$$

or

$$S > T > P > U > R > Q$$

31. (4)

32. (5)

33. (3)

34. (2) Clearly, Amit's brother's birthday is on day common to both above the group i.e. 17th february.

35. (2)

MATHS

36. (1) $? \approx \frac{4 \times 3}{12} \times 952 - 129 = 952 - 129 = 823$

37. (2) $? \approx \frac{8450 \times 105}{100} - 5006 \times \frac{3}{700} + 10 = 8872.5 - 21.5 + 10$
 $= 8861 \approx 8860$

38. (2) $10^3 \times 100^3 + 10^9 \approx 10^7 + 10^7$
 $10^9 + 10^9 = 10^7 + 10^7$
 $? = 9, 9$

39. (4) $? \approx 21 + 3.7 \times 3 = 21 + 11.1 = 32.1 \approx 32$

40. (1) $23 + 9 - ? = 23$

$$? = 9$$

41. (5) Total investment by Lucky and Bipin in organisation S = ₹30,000

$$R = 16\%$$

$$T = 1 \text{ year}$$

When interest compound half-yearly

$$R = 8\% \text{ and } T = 2 \text{ half-yearly}$$

$$C.I = \left[30000 \times \frac{108}{100} \times \frac{108}{100} - 30000 \right] = ₹ 4992$$

42. (1) Investment by lucky in organisation R = $16000 \times \frac{40}{100} = ₹ 6400$

$$= \text{C.I after 2 years} = \left[6400 \times \frac{112}{100} \times \frac{112}{100} - 6400 \right] = ₹ 1628.16$$

Investment by Bipin in organisation

$$R = 16000 - 6400 = ₹ 9600$$

$$\text{C.I after 2 years} = \left[9600 \times \frac{112}{100} \times \frac{112}{100} - 9600 \right] = ₹ 2442.24$$

$$\therefore \text{Required difference} = 2442.24 - 1628.16 = ₹ 814.08$$

43. (5) Required average = $\frac{1}{6} \times \left[42000 \times \frac{54}{100} + 36000 \times \frac{60}{100} + 16000 \times \frac{40}{100} + 30000 \times \frac{30}{100} + \right.$

$$\left. 32000 \times \frac{42}{100} + 48000 \times \frac{64}{100} \right] = \frac{1}{6} [22680 + 21600 + 6400 + 9000 + 13440 + 30720]$$

$$= \frac{103840}{6} = ₹ 17306.66 \approx ₹ 17307$$

44. (2) Investment of Bipin in organisation U = $48000 \times \frac{36}{100} = ₹ 17280$

$$\text{Simple interest earned after first two years} = \frac{17280 \times 7 \times 2}{100} = ₹ 2419.20$$

Compound interest earned after third and fourth year

$$= \left[17280 \times \frac{110}{100} \times \frac{110}{100} - 17280 \right] = ₹ 3628.80$$

$$\therefore \text{Total interest earned} = 2419.20 + 3628.80 = ₹ 6,048$$

45. (1) Amount invested by Lucky in organisation Q = $36000 \times \frac{60}{100} = ₹ 21600$

$$\text{C.I} - \text{S.I} = P \left(\frac{R}{100} \right)^2$$

$$699.84 = \frac{21600}{10000} \times R^2$$

$$\frac{69984}{216} = R^2$$

$$R^2 = 324\%$$

$$R = 18\%$$

46. (1) The pattern is :

$$5531 - 5506 = 25 = 5^2$$

$$5555 - 5506 = 49 = 7^2$$

$$5506 - 5425 = 81 = 9^2$$

$$5425 - 5304 = 121 = 11^2$$

$$5304 - 5135 = 169 = 13^2$$

$$5135 - 4910 = 225 = 15^2$$

$$4910 - 4621 = 289 = 17^2$$

Clearly, 5531 is wrong which should be substituted by 5555.

47. (2) The pattern is :

$$6 + 1 = 7$$

$$7 + 2 = 9$$

$$9 + 4 = 13$$

$$13 + 8 = 21 \neq \mathbf{26}$$

$$21 + 16 = 37$$

$$37 + 32 = 69$$

48. (4) The pattern is :

$$1 \times 1 + 2 = 3$$

$$3 \times 2 + 4 = 10$$

$$10 \times 3 + 6 = 36$$

$$36 \times 4 + 8 = 152$$

$$152 \times 5 + 10 = 770 \neq \mathbf{760}$$

$$770 \times 6 + 12 = 4632$$

49. (3) The pattern is :

$$4 + 1^3 = 5$$

$$5 + 2^3 = 13$$

$$13 + 3^3 = 40$$

$$40 + 4^3 = 104 \neq \mathbf{105}$$

$$104 + 5^3 = 229$$

$$229 + 6^3 = 445$$

50. (1) The pattern is :

$$157.5 \div 3.5 = 45$$

$$45 \div 3 = 15$$

$$15 \div 2.5 = 6$$

$$6 \div 2 = 3$$

$$3 \div 1.5 = 2$$

$$2 \div 1 = 2 \neq 1$$

51. (3) As CI is half yearly,

$$R = 4\%, T = 2 \text{ half yearly}$$

$$\text{First Amount} = 1500 \times \left(1 + \frac{4}{100}\right)^2 = 1500 \times \left(\frac{26}{25}\right)^2 = ₹ 1622.40$$

$$\text{Second Amount} = 1500 \times \left(1 + \frac{4}{100}\right) = 1500 \times \frac{26}{25} = ₹ 1560$$

$$\therefore \text{Total Amount} = \text{First Amount} + \text{Second Amount} = ₹ 3182.40$$

52. (5) Let P's Income be ₹ x .

$$Q's \text{ income} = ₹ (x + 15000)$$

$$R's \text{ income} = x + 15000 + 17000 = ₹ (x + 32000)$$

$$\text{Total investment} = 3x + 47000 = 200000$$

$$x = ₹ 51000$$

$$\text{Ratio of P : Q : R} = 51000 : 66000 : 83000 = 51 : 66 : 83$$

$$\therefore \text{Share of R in profit} = \frac{83}{200} \times 80800 = ₹ 33532$$

53. (1) Area covered by blue tiles = $(20 + 20) \times 2 + 2 \times (6 + 6) = 80 + 24 = 104$ sq. metre
 Area of the floor = $20 \times 10 = 200$ sq. metre
 Remaining area = $200 - 104 = 96$ sq. metre

Area covered by black tiles = $\frac{1}{3} \times 96 = 32$ sq. metre

Area covered by white tiles = $96 - 32 = 64$ sq. metre

\therefore The number of required white tiles = $\frac{64}{2 \times 2} = 16$

54. (5) Required no of ways = ${}^8C_5 \times {}^8C_3 + {}^8C_4 \times {}^8C_4 + {}^8C_3 \times {}^8C_5$
 $= 56 \times 56 + 70 \times 70 + 56 \times 56 = 3136 + 4900 + 3136 = 11172$

55. (2) Speed of first man is 3 kmph = $3 \times \frac{5}{18} = \frac{5}{6}$ m/s

And second man is 6 kmph = $6 \times \frac{5}{18} = \frac{5}{3}$ m/s

Let the speed of the train be x m/s.

Then, the relative speed are $\left(x - \frac{5}{6}\right)$ m/s and $\left(x - \frac{5}{3}\right)$ m/s

Now, length of the train = relative speed \times time taken to pass a man

So, $\left(x - \frac{5}{6}\right) \times 6 = \left(x - \frac{5}{3}\right) \times 9$

$6x - 5 = 9x - 15$

$3x = 10$

$x = \frac{10}{3}$ m/s

Speed of the train = $\frac{10}{3} \times \frac{18}{5} = 12$ kmph and length of the train = $\left(\frac{10}{3} - \frac{5}{6}\right) \times 6 = 15$ m

(56-60):

56. (1) No of boys play Kabaddi = $18000 \times \frac{12}{100} \times \frac{85}{100} = 1836$

No of girls play Carrom = $18000 \times \frac{5}{100} \times \frac{2}{100} = 18$

\therefore Required ratio = $1836 : 18 = 102 : 1$

57. (2) No of boys play in

Carrom = $18000 \times \frac{5}{100} \times \frac{98}{100} = 882$

Tennis = $18000 \times \frac{15}{100} \times \frac{90}{100} = 2430$

Cricket = $18000 \times \frac{13}{100} \times \frac{80}{100} = 1872$

$$\text{Football} = 18000 \times \frac{20}{100} \times \frac{70}{100} = 2520$$

$$\text{Chess} = 18000 \times \frac{35}{100} \times \frac{70}{100} = 4410$$

∴ Required answer is Carrom.

58. (5) Total no. of boys play Cricket and Carrom together = $882 + 1872 = 2754$
Total no of girls play Chess and Tennis together

$$= 18000 \times \frac{35}{100} \times \frac{30}{100} + 18000 \times \frac{15}{100} \times \frac{10}{100} = 1890 + 270 = 2160$$

$$\therefore \text{Required \%} = \left(\frac{2754}{2160} \times 100 \right) \% = 127.5\%$$

59. (2) Total no. of players play Chess = $18000 \times \frac{35}{100} = 6300$

No. of girls play Chess = 1890

$$\therefore \text{Required \%} = \left[\frac{6300 - 1890}{1890} \times 100 \right] \% = \left(\frac{4410}{1890} \times 100 \right) \% = 233.33 \% \approx 233\% \text{ more}$$

60. (5) No. of boys play Football in the year 2017 = $18000 \times \frac{20}{100} \times \frac{70}{100} \times \frac{120}{100} = 3024$

$$\text{No. of girls play Kabaddi in the year 2017} = 18000 \times \frac{12}{100} \times \frac{15}{100} \times \frac{125}{100} = 405$$

∴ Required total = $3024 + 405 = 3429$

61. (3) Work done by L in first three days = $\frac{3}{15} = \frac{1}{5}$ of the work

$$\text{Work done by N and P in 7 days} = 7 \times \left[\frac{1}{25} + \frac{1}{35} \right] = \frac{12}{25} \text{ of the work}$$

$$\text{Total work completed in first 10 days} = \frac{1}{5} + \frac{12}{25} = \frac{17}{25} \text{ of the work}$$

$$\text{The remaining work} = 1 - \frac{17}{25} = \frac{8}{25}$$

$$\text{The work that is to be completed by M} = \frac{1}{2} \times \frac{8}{25} = \frac{4}{25}$$

$$\text{Time taken by M to complete } \frac{4}{25} \text{ of the work} = \frac{\frac{4}{25}}{\frac{1}{20}} = \frac{80}{25} = 3\frac{1}{5} \text{ days}$$

$$\text{The work that is to be completed by D} = \frac{\frac{4}{25}}{\frac{1}{30}} = \frac{24}{5} = 4\frac{4}{5} \text{ days}$$

$$\text{Hence, the total time taken to complete the work} = 3 + 7 + 3\frac{1}{5} + 4\frac{4}{5} = 18 \text{ days}$$

62. (1) let t hrs after starting of the first train they will meet

$$\text{So } 750 = 60t + 90(t - 2)$$

$$t = \frac{930}{150} = 6 \text{ hr } 12 \text{ min}$$

So they will meet at = 7hr + 6 hr 12 min = 13 hr 12 min i.e. 1.12 PM

63. (4) Let E = the event of getting the sum 7.

and,

F = the event of getting at least one 2.

$$\text{Then, } E = \{(1,6)(2,5)(3,4)(4,3)(5,2)(6,1)\}$$

And,

$$F = \{(1,2),(2,2),(3,2),(4,2),(5,2),(6,2),$$

$$(2,1), (2,3), (2,4), (2,5), (2,6)\}$$

$$\text{Then, } E \cap F = \{(2,5),(5,2)\}$$

Now, we have to find $P(F/E)$

$$P(F/E) = \frac{P(E \cap F)}{P(S)} = \frac{2}{6} = \frac{1}{3}$$

64. (4) After selling at ₹ 15/ kg, Sunil earns a profit of 66.66%

Hence, cost price of sweets is ₹ 9/kg.

Now, ratio of flour and sugar is 5 : 3.

Hence,

1 kg of sweet is made up of $\frac{5}{8}$ kg of flour and $\frac{3}{8}$ kg of sugar.

Let price of 1 kg of flour = $3k$

Hence, profit of 1 kg of sugar = $7k$

$$\text{Hence price of 1 kg of sweets} = \left\{ \left[\left(\frac{3}{8} \right) \times 7k \right] + \left[\left(\frac{5}{8} \right) \times 3k \right] \right\} = 9$$

$$k = 2$$

Hence, cost price of sugar = $7k = 7 \times 2 = ₹14/\text{kg}$

65. (4) The price of the item is ₹ P .

And $SP = ₹ Q$

Given, $Q = ₹ 1.2P$

If the cost price of the item is 15% less

Then, $CP = 8.08 \times P = ₹ 0.85 P$

According to the question,

$$0.85 P \times \frac{130}{100} = 1.2 P - 76$$

$$11.05 P = 12 P - 76$$

$$0.95 P = 760$$

$$P = \frac{760}{0.95} = ₹ 800$$

∴ Cost price of the item = ₹ 800

(66-70) :

66. (5) I. $63x^2 - 194x + 143 = 0$

$$63x^2 - 117x - 77x + 143 = 0$$

$$9x(7x - 13) - 11(7x - 13) = 0$$

$$(9x - 11)(7x - 13) = 0$$

$$x = \frac{11}{9}, \frac{13}{7}$$

II. $99y^2 - 255y + 150 = 0$

$$99y^2 - 90y - 165y + 150 = 0$$

$$9y(11y - 10) - 15(11y - 10) = 0$$

$$(9y - 15)(11y - 10) = 0$$

$$y = \frac{15}{9}, \frac{10}{11}$$

67. (1) I. $12x^2 - 32x - 240 = 0$

$$12x^2 - 72x + 40x - 240 = 0$$

$$12x(x - 6) + 40(x - 6) = 0$$

$$(12x + 40)(x - 6) = 0$$

$$x = \frac{-40}{12}, 6 \text{ or } -\frac{10}{3}, 6$$

II. $15y^2 - 216y + 777 = 0$

$$15y^2 - 105y - 111y + 777 = 0$$

$$15y(y - 7) - 111(y - 7) = 0$$

$$(15y - 111)(y - 7) = 0$$

$$y = \frac{115}{15}, 7$$

Clearly, $x > y$

68. (5) I. $x^2 - 13x + 36 = 0$

$$x^2 - 9x - 4x + 36 = 0$$

$$x(x - 9) - 4(x - 9) = 0$$

$$(x - 4)(x - 9) = 0$$

$$x = 4, 9$$

II. $y^2 - 30y + 24 = 0$

$$y^2 - 7y - 23y + 161 = 0$$

$$y(y - 7) - 23(y - 7) = 0$$

$$(y - 23)(y - 7) = 0$$

$$y = 23, 7$$

69. (3) I. $11x^2 - 38x - 24 = 0$

$$11x^2 - 44x + 6x - 24 = 0$$

$$11x(x - 4) + 6(x - 4) = 0$$

$$(11x + 6)(x - 4) = 0$$

$$x = \frac{-6}{11}, 4$$

$$\text{II. } y^2 - y - 30 = 0$$

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

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

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

$$y = -5, 6$$

70. (1) I. $15x - 9y = 20$ (i)

II. $24x + 12y = 48$ (ii)

Equation (i) $\times 4$ + equation (ii) $\times 3$

$$60x - 36y + 72x + 36y = 80 - 144$$

$$132x = -64$$

$$x = \frac{-64}{132} = \frac{-16}{33}$$

Put the value of x in equation (i),

$$15 \times \frac{-16}{33} - 9y = 20$$

$$9y = \frac{-80}{11} - 20$$

$$9y = \frac{-300}{11}$$

$$y = \frac{-300}{11 \times 9} = \frac{-100}{33}$$

Clearly, $x > y$

ENGLISH LANGUAGE

81. (2) 'not only' will come after 'with'.
82. (1) 'other' will use after 'No'.
83. (3) 'for' replace with 'on'.
84. (5) No error.
85. (4) 'have' replace with 'has'.
86. (1) Remove 'about'.
87. (4) 'for' replace with 'to'.
88. (4) 'Look for' (search) replace with 'look after'.
89. (5) No error.
90. (3) 'rather than' replace with 'to'.

VOCABULARIES

Words	Meaning in English	Meaning in Hindi
Alive (to)	conscious of	सचेत, जागरूप
Brisk	fast	तीव्र
Burgeon	To grow or develop	तेजी से बढ़ना
Carve a niche	To find suitable place	सही मुकाम हासिल करना
Cutting edge	Most Advance stage in the development of something	उच्च विकसित स्थिति
Endowment	property, gift in the form of money	धन/उपहार
Give Lie to the them	To show that the claim is not true	किसी दावे को गलत साबित करना
Incursion (into)	Brief but intense attack, Interruption	संक्षिप्त परंतु तीव्र आक्रमण, बाधा
Gratifying	Satisfying	संतोषजनक
Lee way	Freedom	कार्य करने की स्वतंत्रता
Pagged at	Fixed at	निर्धारित
Heartening	Encouraging	प्रोत्साहित करने वाला
Indiscriminate	without making any difference	बिना सोचे-समझे
Downtrodden	Poor	गरीब, बेसहारा
Shed blood	To injure or kill	खून-खराबा करना
Harsh	Strict	कठोर
Negate	To deny, to cancel the effect of something	नकारना, किसी प्रभाव को समाप्त कर देना
Pay no heed	Not to pay attention	ध्यान नहीं देना

IBPS PO SPECIAL PHASE - I - 363 (ANSWER KEY)

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