IBPS PO SPECIAL PHASE - I - 369 (SOLUTION)

REASONING

(1-5) :

Friend	Game	Day
I	Table Tennis	Tuesday
K	Hockey	Friday
M	Cricket	Wednesday
H	Lawn Tennis	Wednesday
J	Kabaddi	Monday
N	Chess	Thursday
L	Badminton	Tuesday

1. (1) 2. (5) 3. (4)
4. (3) 5. (1)
6. (4) **Given statements :**
$W > D = E \geq J = A$ .....(i)
$U = D$ .....(ii)
$J \leq R$ .....(iii)
Combining all statements
$W > U = D = E \geq J = A \leq R$
I. $R \geq E \rightarrow$ False
II. $U > A \rightarrow$ False
Hence, neither conclusion I nor II is true.
7. (1) **Given statements :**
$V > X \leq H < R = L \geq I$ .....(i)
$P \geq Q = V$ .....(ii)
Combining all statements
$P \geq Q = V > X \leq H < R = L \geq I$
I. $P > X \rightarrow$ True
II. $I \leq Q \rightarrow$ False
Hence, Only conclusion I is true.
8. (5) **Given statement :**
$S \geq T = U \leq W < Z$ .....(i)
$K > L > M = Z$ .....(ii)
Combining all statements
$S \geq T = U \leq W < Z = M < L < K$
I. $K > T \rightarrow$ True
II. $U < M \rightarrow$ True
Hence, both conclusion I and II are true.
9. (5) **Given statement :**
$C \geq P = Q \geq T$ .....(i)
$R > C$ .....(ii)
$S = T$ .....(iii)
Combining all statements
$R > C \geq P = Q \geq T = S$
I. $R > Q \rightarrow$ True
II. $P \geq S \rightarrow$ True
Hence, both conclusion I and II are true.
10. (2) **Given statements :**
$B \leq N < K = L$ .....(i)
$M = T \geq N$ .....(ii)
Combining all statements
$M = T \geq N < K = L$
I. $L \leq M \rightarrow$ False
$B \leq N \leq T = M$
II. $T \geq B \rightarrow$ True
Hence, Only conclusion II is true.

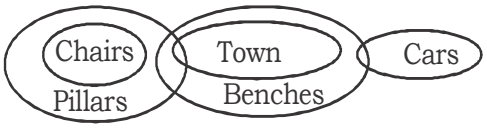
(11-15):

Compartment	Chair
6	Yellow/Violet
5	Red
4	Pink
3	Violet/Yellow
2	White
1	Black

11. (4) 12. (1) 13. (5)
14. (4) 15. (2)

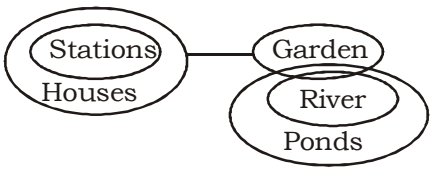
(16–20) :

16. (5)



I. False II. False
III. False IV. True
Only IV follows.

17. (1)

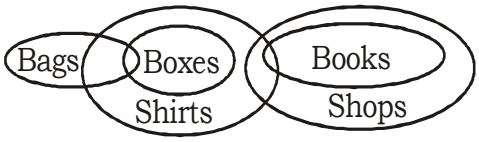


I. True II. False
III. False IV. False
Only I follows.

18. (5)

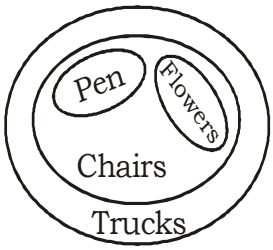
I. Can't say
II. True
III. False
IV. Can't say
Either I or IV and II follow.

19. (5)



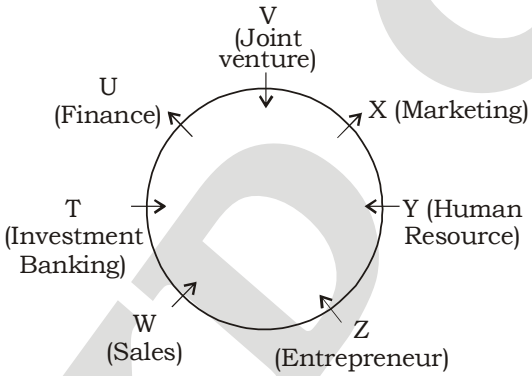
I. False
II. False
III. True
IV. False
Only II follows.

20. (1)



I. True
II. False
III. True
IV. False
I and III follow.

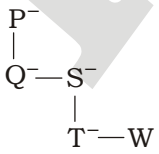
(21-25) :



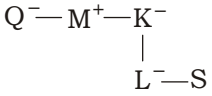
21. (4) 22. (1) 23. (2)
24. (1) 25. (3)

(26-28) :

26. (1)

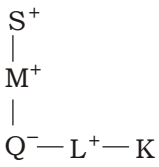


27. (2)



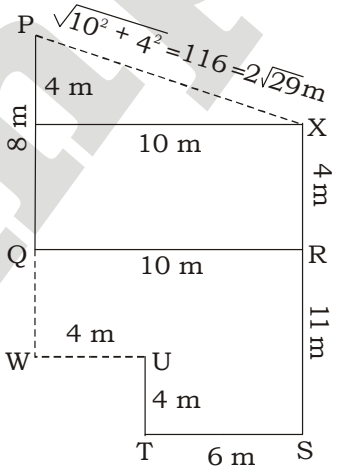
Sister of mother is aunt.

28. (4)



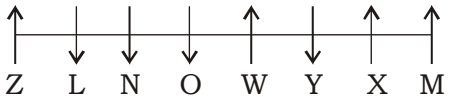
Here, gender of K is not known. Therefore, relation between K and S cannot be established.

(29-30) :



29. (4) 30. (2)

(31-35) :



31. (1) 32. (2) 33. (2)
34. (4) 35. (5)

Maths

36. (1) Given that

$$16 = \frac{P \times 10^2}{100^2}$$

P = Rs. 1600

When compounded half yearly,

$$\text{C.I.} = 1600\left[\left(1+\frac{5}{100}\right)^4 - 1\right]$$

= Rs. 344.81

∴ Required difference = 344.81 – 0.2 × 1600
= Rs. 24.81

37. (2) Total number of four digits numbers greater than 5000
$= 1 \times 4 \times 4 \times 4 - 1 = 63$

38. (4) Required probability $= \frac{^5c_3}{^9c_3} = \frac{5 \times 4 \times 3}{9 \times 8 \times 7}$

$= \frac{5}{42}$

39. (3) Let speed of Romita be x km/hr
Distance = 42 km
Time = 6h

$\Rightarrow (4 + x) = \frac{42}{6}$

$\Rightarrow 4 + x = 7$

$\Rightarrow x = 3$ km/hr

40. (1) A → ← B
P •——————• Q
Let speed of A and B is 2x km/h & 3x km/h respectively
According to question,
$3x \times 3 - 2x \times 2 = 50$
$x = 10$
$\therefore$ Required sum = 10(2 + 3) = 50 km/h

41. (2) Required average $= \frac{1}{5} \times (36 \times 500 + 42 \times 750 + 24 \times 350 + 22 \times 400 + 26 \times + 600)$

$= \frac{1}{5} \times 82{,}300 = 16{,}460$

42. (5) Total no. of voters from Bihar and Delhi of age group (20 – 25) years

$= \frac{24}{100} \times 50000 + \frac{24}{100} \times 35000$

Total no. of voters from UP and Rajasthan of age group (20 – 25) years

$= \frac{30}{100} \times 75000 + \frac{28}{100} \times 40000 = 33700$

$\therefore$ Required percentage

$= \frac{33700 - 19000}{33700} \times 100 \simeq 44\%$

43. (3) Required answer = (40 × 500 + 28 × 750 + 56 × 350 + 50 × 400 + 20 × 600)
= 92,600

44. (4) Required ratio $= \frac{42 \times 750 + 22 \times 400}{24 \times 350 + 26 \times 600}$

$= \frac{40300}{24000} = \frac{403}{240}$

45. (1) Required answer $= \frac{80}{100} \times (50000 + 75000 + 35000 + 40000 + 60000) = 2{,}08{,}000$

46. (3) I. $2x^2 + 19x + 45 = 0$
$\Rightarrow 2x^2 + 10x + 9x + 45 = 0$
$\Rightarrow (x + 5)(2x + 9) = 0$

$\Rightarrow x = -5, -\frac{9}{2}$

II. $2y^2 + 11y + 12 = 0$
$\Rightarrow 2y^2 + 8y + 3y + 12 = 0$
$\Rightarrow (y + 4)(2y + 3) = 0$

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

$\Rightarrow x < y$

47. (3) I. $3x^2 - 13x + 12 = 0$
$\Rightarrow 3x^2 - 9x + 4x + 12 = 0$
$\Rightarrow (x - 3)(3x - 4) = 0$

$\Rightarrow x = 3, \frac{4}{3}$

II. $2y^2 - 15y + 28 = 0$
$\Rightarrow 2y^2 - 8y - 7y + 28 = 0$
$\Rightarrow (y - 4)(2y - 7) = 0$

$\Rightarrow y = 4, \frac{7}{2}$

$\Rightarrow x < y$

48. (3) I. $x^2 = 16$
$\Rightarrow x = 4, -4$
II. $2y^2 - 17y + 36 = 0$
$\Rightarrow 2y^2 - 8y - 9y + 36 = 0$
$\Rightarrow (y - 4)(2y - 9) = 0$

$\Rightarrow y = 4, \frac{9}{2}$

$\Rightarrow x \leq y$

49. (3) I. $6x^2 + 19x + 15 = 0$
$\Rightarrow 6x^2 + 9x + 10x + 15 = 0$
$\Rightarrow (2x + 3)(3x + 5) = 0$

$\Rightarrow x = -\frac{3}{2}, -\frac{5}{3}$

II. $3y^2 + 11y + 10 = 0$
$\Rightarrow 3y^2 + 6y + 5y + 10 = 0$
$\Rightarrow (y + 2)(3y + 5) = 0$

$\Rightarrow y = -2, -\frac{5}{3}$

$\Rightarrow x \geq y$

50. (3) I. $2x^2 - 11x + 15 = 0$
$\Rightarrow 2x^2 - 6x - 5x + 15 = 0$
$\Rightarrow (x - 3)(2x - 5) = 0$
$\Rightarrow x = 3, \frac{5}{2}$
II. $2y^2 - 11y + 14 = 0$
$\Rightarrow 2y^2 - 6y - 7y + 14 = 0$
$\Rightarrow (y - 2)(2y - 7) = 0$
$\Rightarrow y = 2, \frac{7}{2}$
No relation between x and y

51. (2) The series is :
$63 - 47 = 16$
$47 - 39 = 8$
$39 - 35 = 4$
$35 - 33 = 2$
$33 - 32 = 1$
Hence, there should be 35 in place of 34.

52. (1) The series is :
$5 + 3^3 + 1 = 33$
$33 + 4^3 + 2 = 99$
$99 + 5^3 + 3 = 227$
$227 + 6^3 + 4 = 447$
$447 + 7^3 + 5 = 795$
Hence, there should be 795 in place of 797.

53. (3) The series is +339, +678 (339 × 2), + 1356(678 × 2), +2712(1356 × 2),
Hence, there should be 5524 in place of 5624.

54. (5) The difference between numbers is $+(4^3 + 4)$, $+(5^3 + 5)$, $+(6^3 + 6)$, $+(7^3 + 7)$, $+(8^3 + 8)$
1254 in place of 1250

55. (4) $65520 \div 7 = 9360$
$9360 \div 6 = 1560$
$1560 \div 5 = 312$
$312 \div 4 = 78$
$78 \div 3 = 26$

56. (4) Difference between distance travelled by C and F in percentage = 25 – 15 = 10%
Distance travelled by car C = $\frac{160}{10} \times 25$
= 400 km
Time taken by car C = $\frac{400}{80}$ = 5 hours
Time taken car D = $\frac{5}{20} \times 10 = 2.5$ hours
Distance travelled by car D = $\frac{160}{10} \times 20$
= 320 km
Speed of car D = $\frac{320}{2.5}$ = 128 kmph.

57. (4) Distance travelled by Car D = $\frac{20}{100} \times 1800$
= 360 km
Total time taken by all the cars
= $\frac{2}{4} \times 100$
= 50 hours (Difference between taken by car F and car E is given)
Time Taken by car D = $\frac{10}{100} \times 50$
= 5 hours
Speed of car D = $\frac{360}{5}$ = 72 kmph
Distance travelled by car C = 450 km
Time taken by car C = $\frac{20}{100} \times 50$
= 10hours
Speed of car E = $\frac{450}{10}$ = 45 kmph
Required percentage = $72 - \frac{45}{45} \times 100$
= 60%

58. (4) Distance travelled by Car A = 320 km
Time taken by car A = $\frac{320}{80}$ = 4 hours
Distance travelled by Car C = $\frac{25}{100} \times 1600$
= 400 km
Time taken by car C = $\frac{4}{15} \times 20$
= $\frac{80}{15}$ hours
Speed of car C = 400/(80/15) = 75 kmph

59. (4) Distance travelled by car B = $\frac{10}{100} \times 2000$
= 200 km

Distance travelled at 60 kmph = $\frac{3}{5} \times 200$

= 120 km

Time taken = $\frac{120}{60}$ = 2 hours

Distance travelled at 40 kmph
= 200 – 120 = 80 km

Time taken = $\frac{80}{20}$ = 4 hours

Total time taken = 6 hours.

60. (3) Let the distance travelled by all the cars = x km

Distance travelled by car C = $\frac{25}{100} \times x$

= $\frac{x}{4}$

Time taken car C = $\frac{20}{100} \times 40 = 8$ hours

Speed of car C = $\frac{\left(\frac{x}{4}\right)}{8} = \frac{x}{32}$

Distance travelled by car A = $\frac{20}{100} \times x$

= $\frac{x}{5}$

Time taken by car A = $\frac{15}{100} \times 40 = 6$ hours

Speed of car A = $\frac{\left(\frac{x}{5}\right)}{6} = \frac{x}{30}$

Difference between speed of Car A and C

= $\frac{5x}{30} - \frac{x}{32} = 5$

$16x - \frac{15x}{480} = 5$

x = 2400 km

So, distance travelled by car F

= $\frac{15}{100} \times 2400 = 360$ km

61. (4) 62. (1) 63. (4)
64. (3) 65. (5) 66. (1)
67. (5) 68. (5) 69. (1)
70. (3)

VOCABULARIES

Words	Meaning in English	Meaning in Hindi
Disseminating	Spread or disperse (something, especially information) widely	प्रसार
Chiseled	(of wood or stone) shaped or cut with a chisel	तराशा हुआ
Taunt	A remark made in order to anger, wound, or provoke someone	उपहास
Barb	A sharp projection near the end of an arrow, fishhook, or similar item, angled away from the main point so as to make extraction difficult	कंटिया
Sneer	A contemptuous or mocking smile, remark, or tone	उपहास
Hasten	Be quick to do something	जल्दी करना
Inattentive	Not paying attention to something	असावधान
Aggravate	Make (a problem, injury, or offense) worse or more serious	छेड़ना
Intensify	Become or make more intense	तेज
Extrovert	An outgoing, overtly expressive person	बहिर्मुखी
Culminated	Each a climax or point of highest development	समापन हुआ
Enormous	Very large in size, quantity, or extent	विशाल
Outrun	Run or travel faster or farther than	आगे बढ़ना
Optimal	Best or most favorable; optimum	सर्वोत्तम
Emphasizing	Give special importance or prominence to (something) in speaking or writing	बल देना

IBPS PO SPECIAL PHASE - I - 369 (ANSWER KEY)

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