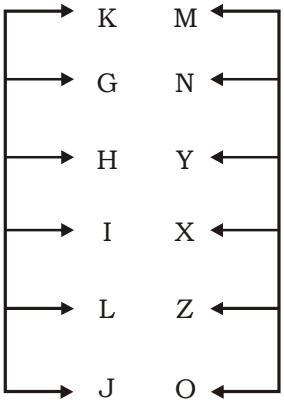
IBPS PO SPECIAL PHASE - I - 319 (SOLUTION)

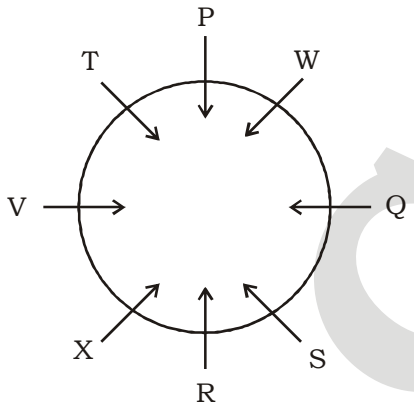
REASONING

(1-5) :



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

(6-10) :



6. (2) 7. (5) 8. (4)
9. (5) 10. (3)

11. (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.

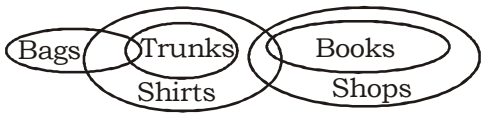
12. (5) **Given statement :**
$C \geq P = Q \geq T$ .....(i)
$R > C$ .....(ii)
$S = T$ .....(iii)
Combining all statements
$R > C \geq P = Q \geq T = S$
I. $R > Q \rightarrow$ True
II. $P \geq S \rightarrow$ True
Hence, both conclusion I and II are true.

13. (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.

14. (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.

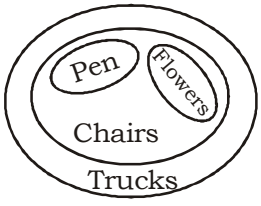
15. (1) **Given statements :**
$V > X \leq H < R = L \geq I$ .....(i)
$P \geq Q = V$ .....(ii)
Combining all statements
$P \geq Q = V > X \leq H < R = L \geq I$
I. $P > X \rightarrow$ True
II. $I \leq Q \rightarrow$ False
Hence, Only conclusion I is true.

16. (5)



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

17. (1)



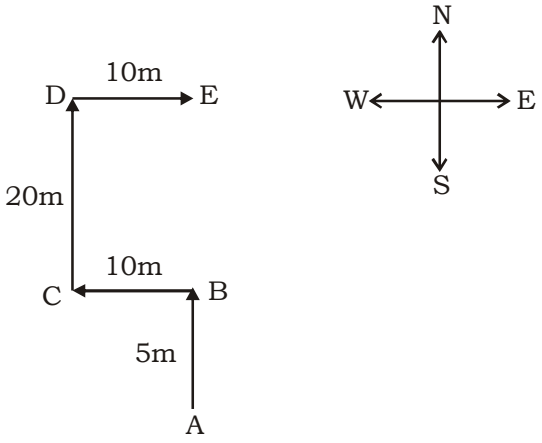
I. True II. False
III. True IV. False
Hence, I and III follows.

18. (5)

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

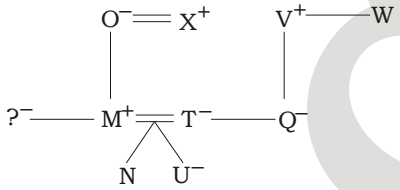
19.(5) 1 2 3 4 5 6 7 8 9 10
D I S C L A I M E R
First, second, sixth and tenth letters are - D, I, A R
Meaningful world RAID, RIAD

20.

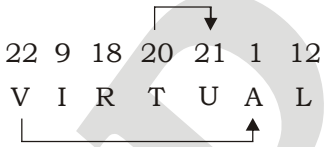


AE = AB + BE = AB + CD = 20 + 5 = 25 m

(21-23) :



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



There are two case - TU & VA

(26-30) :

Floor	Person	Fruits
7	P	Banana
6	Y	Mango
5	X	Apple
4	N	Grapes
3	M	Guava
2	O	Orange
1	Z	Papaya

26. (3) 27. (1) 28. (3)
29. (5) 30. (2)

(31-35) :

31.(1) Let all the numbers are arranged in descending order from left to right, we get:
924 816 725 563 485
725 is in the middle position after rearrangement.
Product of first and second digit of 725 = 7 × 2 = 14

32.(3) Let all the digits in each of the numbers are arranged in ascending order, we get:
257 249 458 168 356; clearly 458 is the highest number which was originally:
485

33.(4) Let the positions of the first and the third digits of each or the numbers are interchanged, we get:
527 429 584 618 365;
Clearly 527, 429 and 365 (three numbers) are odd numbers.

34.(3) Let we add one to the middle digit of each of the numbers, we get:
735 934 495 826 573, in these numbers let we divide them with 3
735/ 3 = 245; 934/3 = 311.33;
495/3 = 165; 826/3 = 275.33;
573/3 = 191; therefore four numbers (735, 495 and 573 are divisible by 3) and remaining two numbers are not divisible by three.

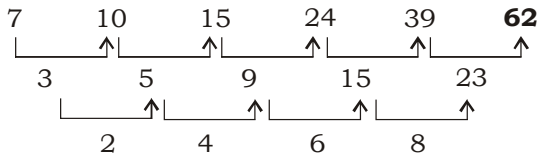
35.(2) From the given numbers (725 924 485 816 563) 924 is highest and 485 is lowest number. Let we multiply first digit of highest number with third digit of lowest number, we get 9 × 5 = 45

Maths

36.(3) $98 = 97 + 1^3$
$90 = 98 - 2^3$
$117 = 90 + 3^3$
$? = 117 - 4^3$, i.e. = 53
$178 = 53 + 53$

37.(1) $11 = 8 + 3^1$
$20 = 11 + 3^2$
$47 = 20 + 3^3$
$? = 47 + 3^4$, i.e. ? = 128
$371 = 128 + 3^5$

38.(2)



39.(3) $14 = 5 \times 3 - 1$
$41 = 14 \times 3 - 1$

122 = 41 × 3 – 1
? = 122 × 3 – 1, i.e. ? = 365
1094 = 365 × 3 – 1

40.(4) 18 × 0.5 = 9
9 × 1 = 9
9 × 1.5 = 13.5
13.5 × 2 = ?, i.e. ? = 27
27 × 2.5 = 67.5

41.(4) Suppose the number is x.

$\because x \times \frac{3}{5} \times \frac{60}{100} \times \frac{40}{100} = 504$

$\therefore \frac{504 \times 5 \times 100 \times 100}{3 \times 60 \times 40} = 3500$

$\therefore x \times \frac{2}{5} \times \frac{25}{100} = 3500 \times \frac{2}{5} \times \frac{25}{100}$

$[\because x = 3500]$

= 350

42.(4) Let Tanvi's age be x years.

$\therefore$ Tarun's age = $\frac{x}{2}$

$\therefore$ Vishal's age is $\frac{x}{4}$ years

After four years,

$(x + 4) = \left(\frac{x}{4} + 4\right) 2.5$

or, $x + 4 = \frac{2.5x}{4} + 10$

or, $4x + 16 = 2.5x + 40$

or, $1.5x = 24$

or, $x = \frac{24}{1.5} = 16$

43.(3) Suppose waste pipe can drain the cistern in x min.
Then,

$\frac{1}{24} + \frac{1}{40} - \frac{1}{x} = \frac{1}{60}$

$\frac{1}{x} = \frac{1}{24} + \frac{1}{40} - \frac{1}{60}$

$\frac{1}{x} = \frac{5 + 3 - 2}{120}$

$\frac{1}{x} = \frac{6}{120} = \frac{1}{20}$

x = 20 min

$\because$ Waste pipe can drain of 30L/min.
Hence, capacity of the cistern = 30 × 20 = 600 L

44.(1) L = 50km
T_1 = 2hr
T_2 =5 hr
Speed of boat = (1/2) × {($1/T_1$) + ($1/T_2$)
= (50/2) × {(1/2) + (1/5) =17.5km/hr
Distance covered = 3 × 17.5 km
= 52.5 km

45.(4) According to the question,
$A_1 - A_2 = 5000 - 200$

$\left(P + \frac{P \times 12 \times T}{100}\right) - \left(P + \frac{P \times 4 \times T}{100}\right)$

= 5000 – 2000

$\Rightarrow \frac{8PT}{100} = 300$

$\Rightarrow PT = \frac{3000 \times 100}{8} = 37500$

$\Rightarrow$ Again, for 12% rate,

$SI = \frac{P \times T \times R}{100} = \frac{37500 \times 12}{100}$

$\Rightarrow$ SI = Rs. 4500

$\therefore$ Sum (P) = 5000 – 4500 = Rs. 500
We have, PT = 37500

$\therefore T = \frac{37500}{P} = \frac{37500}{500} = 75$ years

46.(5) Average = Sum of observations/Number of observations
Given, average wage of a worker during a fortnight comprising 15 consecutive working days was Rs. 95 per day.
Total wage he received in the fortnight = 15 × 95 = Rs.1425
Also, during the first 7 days, his average was Rs. 92 per day and the average wage during the last 7 days was Rs. 97 per day.
Total wage received in the fortnight excluding the 8th day = 92 × 7 + 97 × 7
$\Rightarrow$ Total wage received in the fortnight excluding the 8th day = 1323
Wage on the 8th day = Rs. 1425 – 1323
= Rs. 102

47.(4) Given, ratio of efficiency of P and Q i.e. 3 : 1 so, total efficiency of (P + Q) = 4
Then, Ratio of time taken by P and Q is 1 : 3
Let time taken by P is X days
So time taken by Q is 3X days

Time taken by P = time taken by Q – 60 days

X = 3X – 60

2X = 60

X = 30 days

$Eff._{P+Q} \times T_{P+Q} = Eff._{P \times TP}$

$4 \times T_{P+Q} = 3 \times 30$

$T_{P+Q} = 90$ days

$T_{P+Q} = \frac{90}{4}$ days

$T_{P+Q} = 22\frac{1}{2}$ days

48.(3) Let l be the numerator and m be the denominator of a fraction F

$F = \frac{l}{m}$

Let l is increased by 150% so it would become $250 \times \frac{l}{100} = \frac{5l}{2}$

Let m is increased by 350% so it would become $450 \times \frac{m}{100} = \frac{9m}{2}$

Hence new fraction = $\frac{51}{9m} = \frac{25}{51}$

$\frac{1}{m} = \frac{15}{17}$

49.(1) Suppose, the monthly salary of Ms. Deepti is x rupees.

$\Rightarrow x \times \frac{11}{100} = 5236$

$\Rightarrow x = \frac{5236 \times 100}{11}$

$\Rightarrow x = ₹\,47600$

$\therefore$ Total annual amount invested by Ms. Deepti $= 47600\left(\frac{11}{100} + \frac{19}{100} + \frac{7}{100}\right) \times 12$

$= 47600 \times \frac{37}{100} \times 12 = ₹\,211344$

50.(4) Let the cost price of 1 kg item be x.

So cost price of 600g item = 0.6x.

According to the question the Selling Price of 600 g of item = Cost price of 1 kg item = x.

So, Profit % = $\frac{x - 0.6x}{0.6x} \times 100 = 66.7\%$.

51.(2) No. of employees working in legal deptt. = 48 + 54 + 36 + 30 + 53 = 221

and no. of employees working in H.R. = 1050 + 1015 + 976 + 888 + 1004 = 4933

Required % = $\frac{221 \times 100}{4933}$ = 4 (App)

52.(2) Average number of people working in marketing deptt. = 1326.2

Average number of people working in production deptt. = 1557.4

Required Difference = 1557.4 – 1326.2 = 231 (app.)

53.(5) No. of employees working in organisation A = 1050 +1017+1382 + 1542 + 786 + 48 = 5825

No. of employees working in organization E = 1004 + 963 +1290 + 1580 + 735 + 53 = 5625

Required ratio = 5825 : 5625 = 233 : 225

54.(3) Total no. of employees from all the departments = 5825 + 5703 + 5424 + 5613 + 5625 = 28190

55.(4) Required % = $\frac{960 \times 100}{5703}$ = 17 (app.)

56.(1) 73.96 - 18.19 + 17.47 = ? + 10.91

? = 73.96 - 18.19 + 17.47 - 10.91

? = 55.77 + 6.56

? = 62.33

57.(1) ? = 345 + 20 – 11

? = 354

58.(4) 26 % of 450 = $\frac{26 \times 450}{100} = 26 \times 4.5 = 117.0$

12 % of 150 = $12 \times \frac{150}{100} = 12 \times 1.5 = 18.0$

Hence, 26% of 450 - ? = 12% of 150 $\rightarrow$ 117 - ? = 18 $\rightarrow$?

= 117 – 18 = 99

59.(4) $\frac{36 \times 650}{100} - \frac{14 \times 560}{100}$

= 234 – 78.40 = 155.6

60.(3) 135 + 167 – 32 = ? – 113

= > ? = 270 + 113 = 383

61.(4) 7878 – 4545 + 5454 = ? + 4444

= > 8787 = ? + 4444

= > ? = 8787 – 4444 = 4343

62.(3) $264 \div \sqrt{576} + (11)2 + 12 = (x)^2$

$(x)^2 = \frac{264}{24} + 121 + 12 = 144$

$x = \sqrt{144} = 12$

63.(3) $7960 + 2956 - 8050 + 4028 = ?$
$10916 - 4022 = ?$
$? = 6894$

64.(3) $92 \times \frac{576}{72} = (?)^3 + \sqrt{49}$
$92 \times 8 = (?)^3 + 7$
$(?)^3 = 729$
$? = 9$

65.(4) $225 - 125 + 25 + 44 = ?^2$
$= >169 = ?^2$
$= > ? = 13$

66.(4) 64% of 750 ÷ 4 = x ÷ 5
$\Rightarrow \frac{64 \times 750}{100 \times 4} = \frac{x}{5}$
$\Rightarrow 120 = \Rightarrow \frac{x}{5}$
$\Rightarrow x = 120 \times 5 = 600$

67.(2) $68 \times \sqrt{?} - 3421 = 591$
$\Rightarrow 68 \times \sqrt{?} = 591 + 3421$
$\Rightarrow \sqrt{?} = \frac{4012}{68}$
$\Rightarrow \sqrt{?} = 59$
$\Rightarrow ? = (59)^2 = 59 \times 59$
$\Rightarrow ? = 3481$

68.(1) $\sqrt{18} + \sqrt{32} - \sqrt{50} = ?$
$? = \sqrt{18} + \sqrt{32} - \sqrt{50}$
$= \sqrt{3 \times 3 \times 2} + \sqrt{2 \times 2 \times 2 \times 2 \times 2}$
$- \sqrt{5 \times 5 \times 2}$
$= 3\sqrt{2} + 4\sqrt{2} - 5\sqrt{2} = 2\sqrt{2}$

69. $41 \times 72 \div 8 \div 3 = ?$
$? = \frac{(41 \times 72)}{(8 \times 3)} = 123$

70. $31 + 48 \div 8 - 3 \times 6 = ?$
$? = 31 + \frac{48}{8} - 18$
$? = 31 + 6 - 18 = 19$

ENGLISH LANGUAGE

(96-100) :

96. (3) 'will be going' replace with 'went' because sentence is in past tense.
97. (2) 'as like' replace with 'like'.
98. (5) 'No error'.
99. (4) 'to be performed' (passive) replace 'to perform' (Active)
100. (1) 'to make' replace with 'make'.

VOCABULARIES

Word	Meaning in English	Meaning in Hindi
Manifest	clear or obvious to the eye or mind	प्रकट
Obviate	remove (a need or difficulty)	मुक्त हो जाना
Invent	create or design (something that has not existed before); be the originator of	आविष्कार करना
Woo	try to gain the love of (someone, typically a woman), especially with a view to marriage	विवाह का प्रार्थी होना
Precarious	not securely held or in position; dangerously likely to fall or collapse	अनिश्चित
Raucous	making or constituting a disturbingly harsh and loud noise	फटा
Coarse	rough or loose in texture or grain	मोटा
Tipsy	slightly drunk	प्रमत्त
Sober	not affected by alcohol; not drunk	शांत
Inherent	existing in something as a permanent, essential, or characteristic attribute	निहित
Tardy	delaying or delayed beyond the right or expected time; late	मंदा
Bellicose	demonstrating aggression and willingness to fight	लड़ाकू
Nimble	quick and light in movement or action; agile	चतुर
Mold	a hollow container used to give shape to molten or hot liquid material (such as wax or metal) when it cools and hardens	ढालना

IBPS PO SPECIAL PHASE - I - 319 (ANSWER KEY)

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