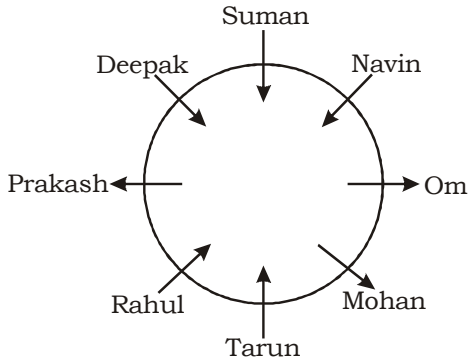## IBPS PO PHASE - I - 180 (SOLUTION)

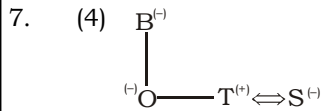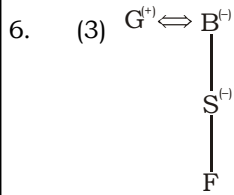### REASONING

(1–5) :

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

(6 - 7):

6. (3) $G^{(+)} \Longleftrightarrow B^{(-)}$

$S^{(-)}$

F

7. (4) $B^{(-)}$

$^{(-)}O — T^{(+)} \Longleftrightarrow S^{(-)}$

(8 - 12):

Person	Floor	Subject
D	8	Sanskrit
B	7	Chemistry
A	6	Computer
G	5	Mathematics
R	4	Biology
E	3	English
C	2	Physics
H	1	Hindi

8. 2 9. (4) 10. (3)
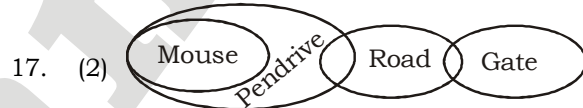11. (5) 12. (1)

(13-14):
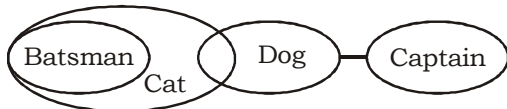
13. (2) I. False   II. True
Only conclusion II follows

14. (1) True   II. False
Only conclusion I follows

15. (3)

I. Doubt   II. Doubt
Either conclusion I or II follows

16. (4)

I. False   II. False
Neither conclusion I nor II follows

17. (2)

I. False   II. True
Only conclusion II follows

(18-22) :

18. (2) $F \geq G = H > J \geq K$
I. $F \geq K \to$ False
II. $K < H \to$ True
Only conclusion I is true

19. (5) $P < Q = R \geq S \geq T$
I. $T \leq Q \to$ True
II. $R > P \to$ True
Both conclusions I and II are true

20. (1) $D \leq A \leq B < C \leq F$
I. $D < C \to$ True
II. $F \geq D \to$ False
Only conclusion I is true

21. (4) $U > A = I \leq O < E$
I. $I \leq E \to$ False
II. $O > U \to$ False
Neither conclusion I nor II is true

22. (5) $P < L = M < K$
$P < L = M \geq N$
I. $K > P \to$ True
II. $N < K \to$ True
Both conclusions I and II are true

(23–27) :

Day	Friend	Wife	Country
Monday	J	P	China
Tuesday	K	R	Japan
Wednesday	B	T	Russia
Thursday	L	Q	India
Friday	C	V	UK
Saturday	A	S	Nepal
Sunday	D	W	US

23. (5)   24. (2)   25. (3)
26. (1)   27. (4)

(28–30) :
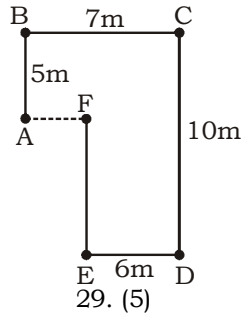
28. (1)   29. (5)
30. (1) DF = $\sqrt{5^2 + 6^2}$ = $\sqrt{61}$ m

(31–35) :

Family Tree
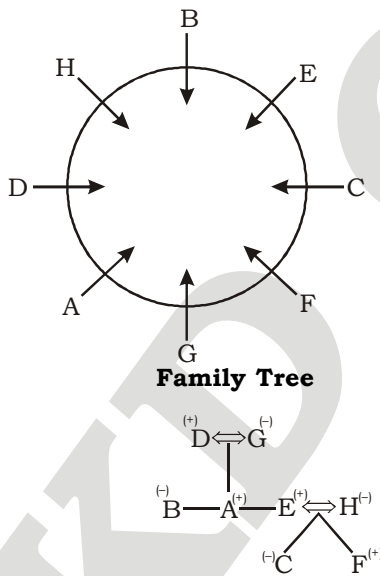
31. (1)   32. (3)   33. (1)
34. (3)   35. (4)

Maths

(36-40) :

36. (1) 8282 + 2828 = ? × 40
    ⇒ ? × 40 = 11110

    ⇒ ? = $\dfrac{11110}{40}$ = 277.75

37. (2) ? % of 650 + 844 = 1000

    ⇒ $\dfrac{?}{100}$ × 650 = 1000 – 844

    ⇒ ? = $\dfrac{156 \times 100}{650}$ = 24

38. (1) 73.96 – 18.19 + 17.47 = ? + 10.91
    ⇒ 73.24 = ? + 10.91
    ⇒ ? = 73.24 – 10.91 = 62.33

39. (2) 348 ÷ 29 × 15 + 156 = (?)³ + 120
    ⇒ 12 × 15 + 156 = (?)³ + 120
    ⇒ (?)³ + 120 = 336
    ⇒ (?)³ = 336 – 120
    ⇒ (?)³ = 216
    ⇒ ? = 6

40. (4) 97306 – 89306 = ? % of 32000
    ⇒ 8000 = ? % of 32000

    ⇒ $\dfrac{?}{100}$ × 32000 = 8000

    ⇒ ? = $\dfrac{8000 \times 100}{32000}$ = 25

(41-45) :

41. (4) Income of company A is the year 2011

    = 400 × $\dfrac{140}{100}$ = ₹560 crores

42. (2) Expenditure of company B in the year

    2015 = $\dfrac{324}{135} \times 100$ = ₹240 crores

43. (3) Let the income of comapany A and B are ₹100 crores.

    ∴ Required ratio = $\dfrac{100}{135}$ × 100 : $\dfrac{100}{130}$ × 100

    = $\dfrac{1}{27}$: $\dfrac{1}{26}$ = 26 : 27

44. (3) Required ratio = $\left(\dfrac{40-30}{30} \times 100 \right)$%

    = 33.33%

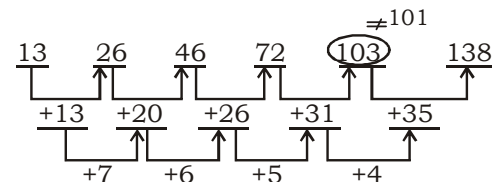45. (2) Let the expenditure of company A and B are ₹100 crores.

    ∴ Required ratio = 100 × $\dfrac{160}{100}$: 100 × $\dfrac{150}{100}$

    = 16 : 15

(46-50) :

46. (4) The number series is as follows:

47. (4) The number series is as follows:
$33 \times 3 + 3 = 102$
$102 \times 4 + 4 = 412$
$412 \times 5 + 5 = 2065 \neq 2020$
$2065 \times 6 + 6 = 12396$

48. (2) The number series is as follows:

$\dfrac{1}{2} + \dfrac{1}{2} = 1$

$1 + \dfrac{3}{4} = \dfrac{7}{4}$
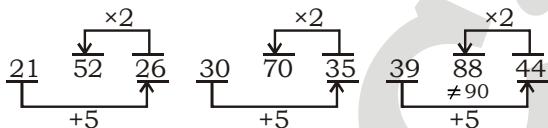
$\dfrac{7}{4} + \dfrac{5}{6} = \dfrac{31}{12}$

$\dfrac{31}{12} + \dfrac{7}{8} = \dfrac{83}{24} \neq \dfrac{86}{25}$

$\dfrac{83}{24} + \dfrac{9}{10} = \dfrac{523}{120}$

49. (1) The number series is as follows:
$1600 \times 0.6 = 960$
$960 \div 0.4 = 2400$
$2400 \times 0.6 = 1440$
$1440 \div 0.4 = 3600$
$3600 \times 0.6 = 2160 \neq 2410$

50. (3) The number series is as follows:

$$21 \quad 52 \quad 26 \quad 30 \quad 70 \quad 35 \quad 39 \quad 88 \quad 44$$

($\times 2$ over 52, 70, 88; $\neq 90$; $+5$ below)

51. (2) Ratio of profit among Aman, Bharat and Chetan
$= 2500 \times 12 : 3500 \times 12 : 4500 \times 8$
$= 5 : 7 : 6$

∴ Required difference $= \dfrac{900}{6} \times 2 = ₹300$

52. (2) Required number of arrangement
$= 7! - (5! \times 3!)$
$= 5040 - 720 = 4,320$

53. (1) Required probality

$= \dfrac{4_{C_2} \times 5_{C_2} + 4_{C_3} \times 5_{C_1} + 4_{C_4}}{9_{C_4}}$

$= \dfrac{3 \times 20 + 4 \times 5 + 1}{126} = \dfrac{81}{126}$

$= \dfrac{9}{14}$

54. (3) 2 days work of L and M together $= \dfrac{2}{3}$

Remaining work $= 1 - \dfrac{2}{3} = \dfrac{1}{3}$

∴ $\dfrac{1}{3}$ work is completed by L in 2 days.

∴ Whole work is completed by L in $2 \times 3 = 6$ days

55. (4) Required time $= \dfrac{180 + 240}{(30 + 40) \times \dfrac{5}{18}}$

$= 21.6$ seconds

(56-60) :

56. (4) Total salary of T
$= \dfrac{22000}{88} \times 100 = ₹\,25,000$
Saving of T $= 25000 - 22000$
$= ₹3,000$
∴ Required ratio $= 25000 : 3000 = 25 : 3$

57. (3) Expenditure of U $= 32000 - 5500$
$= ₹26,500$
∴ Expenditure on education
$= 26500 \times \dfrac{20}{100} = ₹5,300$

58. (2) Expenditure of R $= 27000 \times \dfrac{88}{100}$
$= ₹23,760$
∴ Required amount he sbent on house
rent $= 23760 \times \dfrac{10}{100} = ₹2,376$

59. (2) Total salary of S
$= 25800 + 4200 = ₹30,000$
∴ Required average salary of P, Q, S and U
$= \dfrac{45000 + 38000 + 30000 + 32000}{4}$
$= \dfrac{145000}{4} = ₹36,250$

60. (2) New salary of P $= 45000 \times \dfrac{120}{100}$
$= ₹54,000$
New expenditure of P $= 37500 \times \dfrac{110}{100}$
$= ₹41,250$
New saving of P $= 54000 - 41250$
$= ₹12,750$
Present savings of P $= 45000 - 37500$
$= ₹7,500$
∴ Required difference
$= 12750 - 7500 = ₹5,250$

61. (3) Speed in downstream = $\dfrac{36}{10}$

= 3.6 km/hr.

Speed in upstream = $\dfrac{36}{12}$ = 3 km/hr

∴ Speed of boat in still water = $\dfrac{3 + 3.6}{2}$

= 3.3 km/hr

62. (1)

63. (2) Area of a square = 484 sq.cm.
∴ Side = 22 cm.
Permeter of square = 4 × side
= 4 × 22 = 88 cm.
Circumference of circle = 88 cm.
⇒ $2\pi r = 88$

⇒ $r = \dfrac{88}{2 \times 22} \times 7 = 14$ cm

∴ Area of circle = πr^2

= $\dfrac{22}{7} \times 14 \times 14 = 616$ cm^2

64. (3) Required number of men

= $\dfrac{12 \times 84}{36}$ = 28 men

65. (4) Ratio of their share in the profit
= 45000 × 24 : 75000 × 18 : 120000 × 12
= 45 × 24 : 75 × 18 : 120 × 12
= 12 : 15 : 16

(66-70) :

66. (1) I. $16x^2 + 9 = 3 - 20x$
⇒ $16x^2 + 20x + 6 = 0$
⇒ $8x^2 + 10x + 3 = 0$
⇒ $8x^2 + 4x + 6x + 3 = 0$
⇒ $4x(2x + 1) + 3(2x + 1) = 0$

⇒ $x = -\dfrac{3}{4}, -\dfrac{1}{2}$

II. $10y^2 + 2(19y + 12) = 0$
⇒ $10y^2 + 38y + 24 = 0$
⇒ $5y^2 + 19y + 12 = 0$
⇒ $5y^2 + 15y + 4y + 12 = 0$
⇒ $5y(y + 3) + 4(y + 3) = 0$

⇒ $y = -\dfrac{4}{5}, -3$

Clearly, $x > y$

67. (2) I. $9x^2 + 9x + 2 = 0$
⇒ $9x^2 + 3x + 6x + 2 = 0$
⇒ $3x(3x + 1) + 2(3x + 1) = 0$

⇒ $x = -\dfrac{2}{3}, -\dfrac{1}{3}$

II. $2(6y^2 + 7) + 29y = 0$
⇒ $12y^2 + 14 + 29y = 0$
⇒ $12y^2 + 29y + 14 = 0$
⇒ $12y^2 + 8y + 21y + 14 = 0$
⇒ $4y(3y + 2) + 7(3y + 2) = 0$

⇒ $y = -\dfrac{7}{4}, -\dfrac{2}{3}$

Clearly, $x \geq y$

68. (2) I. $30x - 72 = 2x^2$
⇒ $2x^2 - 30x + 72 = 0$
⇒ $x^2 - 15x + 36 = 0$
⇒ $x^2 - 12x - 3x + 36 = 0$
⇒ $x(x - 12) - 3(x - 12) = 0$
⇒ $x = 3, 12$

II. $y^2 - \dfrac{40}{6} = \dfrac{7}{3}$

⇒ $y^2 = \dfrac{7}{3} + \dfrac{40}{6}$

⇒ $y^2 = \dfrac{54}{6}$

⇒ $y = +3, -3$
Clearly, $x \geq y$

69. (2) I. $x^2 - 51x + 650 = 0$
⇒ $x^2 - 26x - 25x + 650 = 0$
⇒ $x(x - 26) - 25(x - 26) = 0$
⇒ $x = 25, 26$
II. $y^3 = 15625$
⇒ $y = 25$
Clearly, $x \geq y$

70. (4) I. $6x^2 + 3x - 3 = 6$
⇒ $2x^2 + x - 1 = 0$
⇒ $2x^2 + 2x - x - 1 = 0$
⇒ $2x(x + 1) - 1(x + 1) = 0$

⇒ $x = \dfrac{1}{2}, -1$

II. $12y^2 - 26y + 10 = 0$
⇒ $6y^2 - 13y + 5 = 0$
⇒ $6y^2 - 10y - 3y + 5 = 0$
⇒ $2y(3y - 5) - 1(3y - 5) = 0$

⇒ $y = \dfrac{1}{2}, \dfrac{5}{3}$

Clearly, $x \leq y$

ENGLISH LANGUAGE

(91-95) :

91. (1) Change 'of' with 'over'.
92. (5) No error
93. (3) Remove 'from'.
94. (4) Change 'to move' with 'moving'.
95. (2) Change 'to reture to home' with return.

VOCABULARIES

Word	Meaning in English	Meaning in Hindi
Grapple	the act or an instance of grappling	पकड़ना
Bickering	argue about petty and trivial matters	कलह
Cynicism	an inclination to believe that people are motivated purely by self-interest; scepticism	कुटिलता
Cumulative	increasing or increased in quantity, degree, or force by successive additions.	संचयी
Exhibit	an object or collection of objects on public display in an art gallery or museum or at a trade fair.	दिखाना
Consistency	conformity in the application of something, typically that which is necessary for the sake of logic, accuracy, or fairness.	स्थिरता
Articulate	(of a person or a person's words) having or showing the ability to speak fluently and coherently.	स्पष्ट, गाँठदार
Reinforcing	strengthen or support, especially with additional personnel or material.	मजबूत
Courtesy	the showing of politeness in one's attitude and behavior toward others .	के सौजन्य से
Altercation	a noisy argument or disagreement, especially in public	तकरार
Concede	admit that something is true or valid after first denying or resisting it.	स्वीकार करना
Confront.	meet (someone) face to face with hostile or argumentative intent.	सामना करना
Conceal	keep from sight; hide	छिपाना
Cherished	protect and care for (someone) lovingly	पोषित
Provocative	causing annoyance, anger, or another strong reaction, especially deliberately.	उत्तेजक
Imbibe	drink (alcohol)	पी लेना
Moulding	an ornamentally shaped outline as an architectural feature, especially in a cornice.	ढलाई
Proliferation	rapid increase in numbers	प्रसार
Aspects	a particular part or feature of something	पहलू

IBPS PO PHASE - I - 180 (ANSWER KEY)

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

Note:- If you face any problem regarding result or marks scored, please contact 9313111777

Note:- Whatapp with Mock Test No. and Question No. at 7053606571 for any of te doubts. Join the group and you may also share your suggestions and experience of sunday Mock Test.

Note:- If your opinion differs regarding any answer, please message the mock test and question number to 8860330003