IBPS PO PRELIMS SPECIAL MOCK - 381 (SOLUTION)

REASONING

(1-5) :

Floor	Person	Fruits
7	Vishnu	Banana
6	Akash	Mango
5	Sunil	Apple
4	Raghav	Grapes
3	Vivek	Guava
2	Shiva	Orange
1	Vishesh	Papaya

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

(6-10) :

% → >
$ → $\leq$
* → <
& → $\geq$
© → =

6. (2) $R < A \leq M \leq P, M \leq C$
I. $P > R \rightarrow$ True
II. $A \leq P \rightarrow$ True
III. $P > C \rightarrow$ False
Both conclusion I and II are true.

7. (2) $Z \geq X = A \leq S = D < C$
I. $S > Z \rightarrow$ False
II. $D < C \rightarrow$ True
II. $X < C \rightarrow$ True
Both conclusion II and III are true.

8. (1) $V \leq H < F = G, B \leq H$
I. $F > V \rightarrow$ True
II. $G = H \rightarrow$ False
II. $V < B \rightarrow$ False
Only conclusion I is true.

9. (3) $E > J \geq H = D \leq C, D > F$
I. $E > C \rightarrow$ False
II. $F < E \rightarrow$ True
III. $J > F \rightarrow$ True
Both conclusion II and III are true.

10. (3) $Z = Y \geq V < W \leq R$
I. $W \geq Y \rightarrow$ False
II. $R > V \rightarrow$ True
III. $V \leq Z \rightarrow$ True
Both conclusion II and III are true.

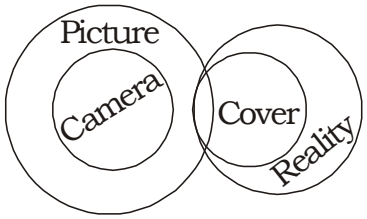
(11-15) :

Person	Floor	Shop
Madhuri	7	Titan
Kusum	6	Walmart
Mahima	5	Puma
Seema	4	Nike
Priya	3	Reebok
Rama	2	Liberty
Sita	1	Sonata

11. (4) 12. (3) 13. (1) 14. (2) 15. (3)

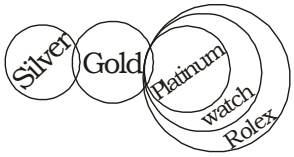
(16-20) :

16. (4)



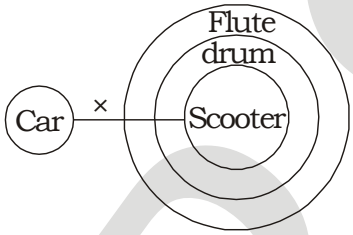
I. True II. False III. True IV. False
Only I and III follows

17. (4)



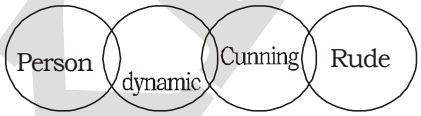
I. True II. False III. True IV. False
Only I and III follows

18. (5)



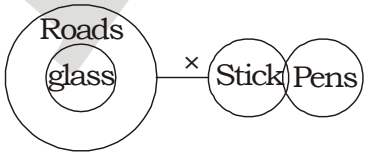
I. True II. True III. True IV. False
Only I, II and III follows

19. (2)



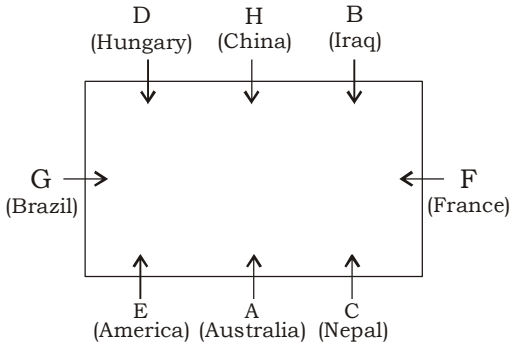
I. False II. True III. False IV. False
Only II follows

20. (5)



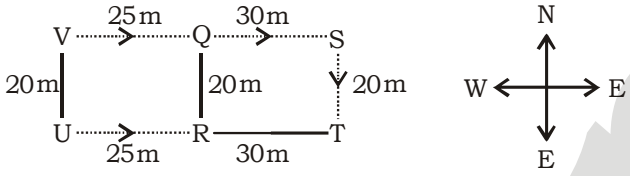
I. False II. True III. False IV. True
Only II and IV follows

(21-25) :



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

(26 –27) :

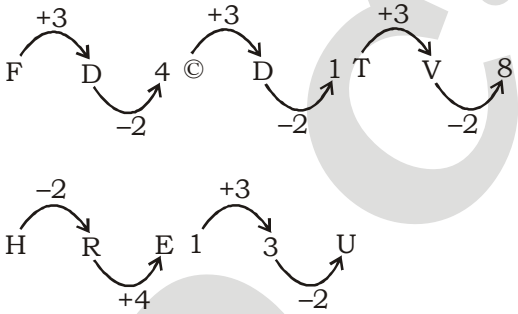


26. (3) SV = VQ + SQ = 25 + 30 = 55 m

27. (2) Northeast

28. (2) Twelfth to the left of the twenty second from the left end is (22–12=) 10th from the left, i.e @

29. (4)



30. (1) New arrangement becomes:
F % D A © I B @ R H E * N $ U W P T 9 V # Z Q.
Hence sixteenth from the right end is @.

(31-35) :

Input : 32 proud girl beautiful 48 55 97 rich family 61 72 17 nice life
Step I : beautiful 17 32 proud girl 48 55 97 rich family 61 72 nice life
Step II : family 32 beautiful 17 proud girl 48 55 97 rich 61 72 nice life
Step III : girl 48 family 32 beautiful 17 proud 55 97 rich 61 72 nice life
Step IV : life 55 girl 48 family 32 beautiful 17 proud 97 rich 61 72 nice
Step V : nice 61 life 55 girl 48 family 32 beautiful 17 proud 97 rich 72
Step VI : proud 72 nice 61 life 55 girl 48 family 32 beautiful 17 97 rich
Step VII : rich 97 proud 72 nice 61 life 55 girl 48 family 32 beautiful 17.

31. (3) 32. (4) 33. (3) 34. (1) 35. (2)

Maths

(36-40) :

36. (2) $217250 \div 1350 \div 120 = 217250 \div 162000 = 1.34 \approx 2$

37. (1) $\left(\frac{7}{4}\right)^{\frac{1}{2}} \times \frac{396}{11} \div \frac{588}{12} = \left(\frac{7}{4}\right)^{\frac{1}{2}} \times \frac{396}{11} \times \frac{12}{588}$

$\approx (2)^{\frac{1}{2}} \times 36 \times \frac{1}{49} = 1.46 \approx 2$

38. (4) $9237.89 - 7629.01 + 5153.99 - 6205.10$
$\approx 9238 - 7629 + 5154 - 6205$
$= 14392 - 13834 = 558$

39. (5) $14.03 \times 23.96 + 14.98 \times \sqrt[3]{46656}$
$\approx 14 \times 24 + 15 \times 36$
$= 336 + 540 = 876$

40. (4) $(7256 + 1286) - 1234 + 189$
$= 8542 - 1234 + 189$
$= 8731 - 1234 = 7497$

(41-45) :

41. (2) Required Ratio = $\frac{(45 \times 925)}{(60 \times 650)} = \frac{111}{104} = 111 : 104$

42. (2) Required sum = 25% of 880 + 56% of 1125 + 60% + 60% of 650

$= \frac{25}{100} \times 880 + \frac{56}{100} \times 1125 + \frac{60}{100} \times 650 = 220 + 630 + 390 = 1240$

43. (2) Number of females of village B = 40% of 1050 = 420

Required percentage = $\left(\frac{420}{1125} \times 100\right)\% = 37.33\% \approx 37\%$

44. (5) Sum of total number of female in entire village = 55% of 925 + 40% of 1050 + 75% of 880 + 56% of 1125 + 60% of 650 + 35% of 985
$= 508.75 + 420 + 660 + 630 + 390 + 344.75$
$= 2953.5 \approx 2954$

45. (5) Total no. of males in entire village = 45% of 925 + 60% of 1050 + 25% of 880 + 44% of 1125 + 40% of 650 + 65% of 985
$= 416.25 + 630 + 220 + 495 + 260 + 640.25 = 2661.5$

$\therefore$ Required Average = $\frac{2661.5}{6} = 443.58 \approx 444$

(46-50) :

46. (2) The pattern of the number series is :
$9 \times 2 - 3 = 18 - 3 = 15$
$15 \times 2 - 3 = 30 - 3 = 27$
$27 \times 2 - 3 = 54 - 3 = 51$
$51 \times 2 - 3 = 102 - 3 = 99$
$99 \times 2 - 3 = 198 - 3 =$ **195**

47. (4) The pattern of the number series is :

13 + 8 = 21

21 + 8 + 7 = 21 + 15 = 36

36 + 15 + 7 = 36 + 22 = 58

58 + 22 + 7 = 58 + 29 = 87

87 + 29 + 7 = 87 + 36 = **123**

48. (4) The pattern of the number series is :

7 + (2 + 0) = 9

9 + (2 + 8) = 19

19 + (10 + 16) = 45

45 + (26 + 24) = 95

95 + (50 + 32) = **177**

49. (1) The pattern of the number series is :

$14 + 1^2 = 15$

$15 + 2^3 = 23$

$23 + 3^2 = 32$

$32 + 4^3 = 96$

$96 + 5^2 = 96 + 25 =$ **121**

50. (3) The pattern of the number series is :

$20 + 1 \times 4 = 20 + 4 = 24$

$24 + 3 \times 4 = 24 + 12 = 36$

$36 + 5 \times 4 = 36 + 20 = 56$

$56 + 7 \times 4 = 56 + 28 = 84$

$84 + 9 \times 4 = 84 + 36 =$ **120**

51. (2) Let the length of candles be 1 unit and after t hours, the ratio of their length be 3 : 4.

ATQ,

$$\frac{1-\frac{1}{7}t}{1-\frac{1}{9}t} = \frac{3}{4} \Rightarrow \frac{7-t}{9-t} \times \frac{9}{7} = \frac{3}{4}$$

$t = 4\frac{1}{5}$ hr = 4 hr 12 minutes

52. (2) ATQ,

Let time = x minutes

1 page has 23 lines

$$\therefore \quad \frac{(100-8)\times 20}{10} = \frac{\left(100 \times \frac{128}{100} \times 8\right) \times 23 \times 40}{x}$$

x = 450 min = 7 hr 30 min

53. (3) Required no. of way = $\frac{11!}{3! \times 4! \times 2! \times 2!} = 63900$

54. (3) Let the speed of Car be x km/h and actual time taken is t hrs.

In first case, distance = $(x+6)(t-6)$ km ..... (i)

In second case, distance = $(x-6)(t+6)$ ..... (ii)

Also distance = xt from (i) and (ii) ..... (iii)

$$\frac{x+6}{x-6} = \frac{t+6}{t-4}$$

$$\frac{x}{6} = \frac{2t+2}{10}$$

$$\frac{x}{6} = \frac{t+1}{5}$$

$$5x = 6t + 6 \Rightarrow 5x - 6t = 6 \Rightarrow t = \frac{5x-6}{6}$$

Putting the value of 't' in eqn. (iii) we get,

x = 30 km/hr

$\therefore$ t = 25 hr

Thus, distance = 30 × 24 = 720

55. (1) Let the price per kg of Orange, Mangoes, Bananas and Grapes be ₹ O, ₹ M, ₹ B and ₹ G respectively.

Given that

5 O + 2 M = 310 ..... (i)

3 M + 3.5B = 230 ..... (ii)

1.5 B + 5 G = 610 ..... (iii)

Now, (i), (ii), (iii) we get

5 O + 5 M +5 B + 5 G = 700

$\therefore$ 100 + 10 M + 10 B + 10 G = 2 × 700 = ₹ 1400

(56-60) :

56. (2) I. $5x^2 - 87x - 378 = 0$

$5x^2 - 105x + 18x - 378 = 0$

$5x(x-21) + 18(x-21) = 0$

$(5x + 18)(x-21) = 0$

$$x = -\frac{18}{5}, 21$$

II. $3y^2 - 49y + 200 = 0$

$3x^2 - 24y - 25y + 200 = 0$

$3y(y-8) - 25(y-8) = 0$

$(3y-25)(y-8) = 0$

$$y = \frac{25}{3}, 8$$

Clearly, $x < y$

57. (2) I. $(x + 1)(x + 18) = -66$
$x^2 + 18x + x + 18 + 66 = 0$
$x^2 + 19x + 84 = 0$
$x^2 + 12x + 7x + 84 = 0$
$x(x + 12) + 7(x + 12) = 0$
$(x + 7)(x + 12) = 0$
$x = -7, -12$

II. $\sqrt{(y-3)(y-27)} = 9$
$(y - 3)(y - 27) = 81$
$y^2 - 27y - 3y + 81 - 81 = 0$
$y^2 - 30y = 0$
$y(y - 30) = 0$
$y = 0, 30$
Clearly, $x < y$

58. (1) I. $\frac{15}{x} + \frac{16}{y} = 1$ ..... (i)

II. $\frac{3}{x} - \frac{7}{y} = 5$ ..... (ii)

equation (i) – (ii) × 5, we let

$\frac{15}{x} + \frac{16}{y} - \frac{15}{x} + \frac{35}{y} = 1 - 25$

$\frac{51}{y} = -24 \Rightarrow y = \frac{-51}{24}$

Put the value of y in equation (i), we get

$\frac{15}{x} + \frac{16}{-51} \times 24 = 1$

$\frac{15}{x} = 1 + \frac{128}{17} \Rightarrow \frac{15}{x} = \frac{145}{17}$

$x = \frac{15 \times 17}{145} = \frac{255}{145}$

Clearly, $x > y$

59. (2) I. $17x^2 + 48x = 9$
$17x^2 + 48x - 9 = 0$
$17x^2 + 51x - 3x - 9 = 0$
$17x(x + 3) - 3(x + 3) = 0$
$(17x - 3)(x + 3) = 0$

$x = \frac{3}{17}, -3$

II. $13y^2 + 12 = 32y$
$13y^2 - 32y + 12 = 0$
$13y^2 - 26y - 6y + 12 = 0$
$13y(y - 2) - 6(y - 2) = 0$
$(13y - 6)(y - 2) = 0$

$y = \frac{6}{13}, 2$

Clearly, $x < y$

60. (5) I. $4x + 7y = 209$ ..... (i)

II. $12x - 14y = -38$ ..... (ii)

equation (i) × 2 + (ii), we get

$8x + 14y + 12x - 14y = 418 - 38$

$20x = 380 \Rightarrow x = 19$

Now, put the value of x in equation (ii)

$12 \times 19 - 14y = -38$

$14y = 228 + 38$

$14y = 266 \Rightarrow y = \frac{266}{14} = 19$

Clearly, $x = y$

(61 – 65) :

61. (4) $\frac{2}{7}$ of $\frac{5}{6}$ of ? = 200

$\frac{2}{7} \times \frac{5}{6} \times ? = 200$

$? = \frac{200 \times 7 \times 6}{10} = 840$

62. (3) 25% of 420 – ?% of 140 = 77

$\frac{25}{100} \times 420 - \frac{?}{100} \times 140 = 77$

$105 - 77 = \frac{?}{10} \times 14$

$? = \frac{28 \times 10}{14} = 20$

63. (5) $4\frac{7}{8} - 2\frac{1}{2} + 1\frac{3}{4} = ?$

$? = 4 - 2 + 1 + \left(\frac{7}{8} - \frac{1}{2} + \frac{3}{4}\right)$

$? = 3 + \left(\frac{7 - 4 + 6}{8}\right)$

$? = 3 + \frac{9}{8} = 4\frac{1}{8}$

64. (1) $4 \times 5^2 - 3^2 \times 7 + 6^2 = ? + 24$

$100 - 63 + 36 = ? + 24$

$? = 73 - 24 = 49 = 7^2$

65. (4) 0.75% of 90 + 0.55% of 80 = ?

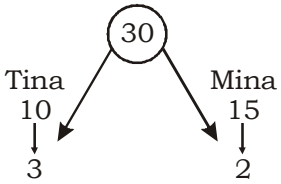
$? = \frac{0.75}{100} \times 90 + \frac{0.55}{100} \times 80$

$0.675 + 0.44 = 1.115$

66. (2) Tina can complete the work in 10 days

Mina can complete the work in

$\frac{10}{200} \times 3 \times 100 = 15$ days



$\therefore$ Required no. of days = $\frac{30}{5} = 6$ days

67. (1) Ratio of time = $\frac{3}{1} : \frac{8}{2} : \frac{18}{3} = 3 : 4 : 6$

68. (1) Radius (r) = 3 cm

Height (h) = 4 cm

Slant height (l) = $\sqrt{r^2 + h^2} = \sqrt{3^2 + 4^2} = 5$ cm

$\therefore$ Total CSA of cone = $\pi rl + \pi r^2$

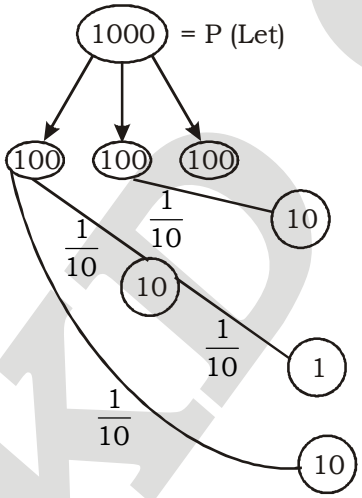
$= \pi r (l + r) = \pi \times 3 \times 8 = 24\pi$ cm^2

69. (2) Length of train = 200 m

Length of plateform = 200 + 50 = 250 m

$\therefore$ Speed of train = $\frac{200 + 250}{18} = \frac{480}{18} = 25$ m/s

70. (1) R = 10% = $\frac{1}{10}$



CI = 300 + 31 = 331 unit

SI = 300 unit

CI – SI = 331 – 300 = 31 unit

31 unit = ₹ 31

$\therefore$ 1000 unit = $\frac{31}{31} \times 1000$ = ₹ 1,000

English Language

(81 - 90) :

81. (3) 'have' replace with 'has'.
82. (5) 'No error'
83. (2) 'problem' replace with 'problems'
84. (4) 'assumes' replace with 'assume' because 'assumes' is singular vesbbut subject i.e. honesty and integrity is plural.
85. (3) 'to' will not come after 'Superior' because here we are not comparing
86. (5) 'No error'
87. (2) 'of' should be removed from here. for connecting two sentences conjunction 'because' will be used.
88. (5) 'No error'
89. (3) 'May' replace with 'Might' because verb predicted in past form.
90. (5) 'No error'

(91 - 95) : D A E C B

VOCABULARIES

Word	Meaning in English	Meaning in Hindi
Obstacle	athing that blocks one's way or prevents or hinders progress	अवरोध
Immediate	occurring or done at once	तुरंत
Potential	having or showing the capacity to develop into something in future	क्षमता
Proactively	by taking action to control a satuation	सक्रियता
Thaive	grow or developwell or vigorously or to flourish	प्रगति करना
Mired in	deep down	किसी समस्या से ग्रस्त
Break Throughs	new achevement	नयी उपलब्धि
Plunge	to fall down sharply	तेजी से नीचे गिरना
Beef up	to strengthen or improve	मजबूत बनाना
Panicked buying	large scale buying because of fear of future scacotiy	भविषय में कमी की आशंका
Fierce	wild or menacing in appearance	भयानक, खतरनाक
Topple	to depose	उपदस्य कर देना
Swayed by	the ability to exercise in fluence or authority	प्रभावित
Barven	too poor to produce much or any vegetation	बंजर
Impetus	Incentive, Encouragement	प्रेरणा
Make ends meet	to earn livelihood	रोजी रोटी कमाना
Balldore	to destroy or demolish	नष्ट कर देना
Unobtrusive	not drawing attention	ध्यान आकृष्ट नहीं
Misapprehension	false belief	गलत धारणा

IBPS PO PRELIMS SPECIAL MOCK - 381 (ANSWER KEY)

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