

IBPS PO PHASE - I - 103 (SOLUTION)

REASONING

(1-5):

Place	Bottle	Juice	Colour
1	S	Apple	Blue
2	W	Mango	Pink
3	Y	Olive's	Brown
4	T	Grapes	Pink
5	Z	Orange	White
6	V	Pear	White
7	X	Kiwi	Blue
8	P	Banana	Brown

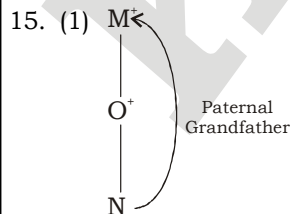
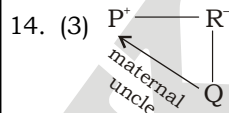
1. (4) 2. (2) 3. (2)
4. (2) 5. (3)

(6-13):

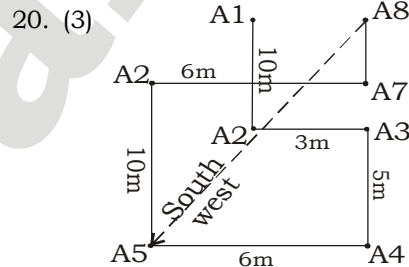
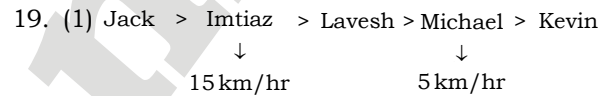
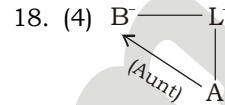
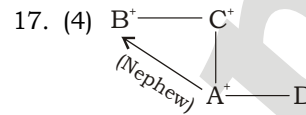
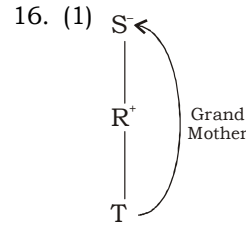
Floor	Person	Dates	Place	Month
12	Aman	2	Gorakhpur	October
11	Umesh	3	Durgapur	March
10	Tribhuvan	11	Kurukshetra	December
9	Satyarth	19	Sasaram	November
8	William	4	Rampur	September
7	Ryan	9	Noida	April
6	Yogesh	13	Moradabad	February
5	Ajay	1	Vaishali	May
4	Vinay	6	Bareilly	June
3	Praveen	5	Lucknow	August
2	Omnath	17	Jaunpur	July
1	Manoj	10	Varanasi	January

6. (1) 7. (1) 8. (3)
9. (5) 10. (5) 11. (5)
12. (2) 13. (4)

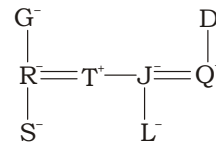
(14-17):



(16-20):



(21-22):



21. (3)

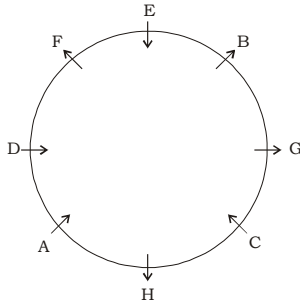
22. (2)

(23-27):

Floor	Day	Person	Game
7	Sunday	Deepak	Cricket
6	Monday	Bipin	Football
5	Thursday	Chankya	Hockey
4	Tuesday	Edward	Volleyball
3	Friday	Amitabh	Basketball
2	Wednesday	Gopal	Tennis
1	Saturday	Fred	Kabbadi

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

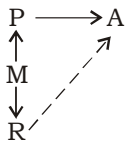
(28-32) :



28. (5) 29. (3) 30. (4)
31. (2) 32. (4)

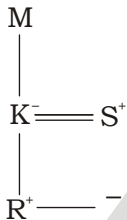
(33-35) :

33. (1) from I

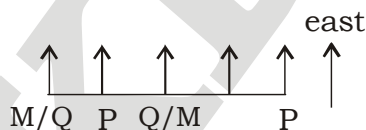


A's position is north east
only statement I sufficient to answer the question and statement II and III are not sufficient to give the answer.

34. (3) from I and II



35. (2) From I



Not sufficient to answer the question from II.



Sufficient to answer the question.

MATHS

(36-40) :

36. (2) ? = $\frac{18 \times 609}{100} + \frac{27.5 \times 450}{100}$
= 109.62 + 123.75 = 233.37 \approx 233
37. (3) ? = $\frac{3942}{64 \times 3} = 20.53 \approx 21$
38. (4) ? = $\frac{23}{10} \times \frac{34}{7} \times \frac{15}{2} = 83.785 \approx 84$
39. (4) ? $\approx 12.6 \times 22 \times 18 = 4989.6 \approx 4959$
40. (3) ? $\approx 17 + 27 + 37 - 13 - 9 \approx 59 \approx 60$

(41-45) :

41. (4) Total no. of girl in swimming
= $1800 \times \frac{12}{100} \times \frac{5}{8} = 135$
Total no. of girls in Tennis
= $1800 \times \frac{25}{100} \times \frac{3}{5} = 270$
 \therefore Required% = $\left(\frac{135}{270} \times 100\right)\% = 50\%$

42. (1) Required total
= $1800 \times \frac{13}{100} \times \frac{2}{3} + 1800 \times \frac{30}{100} \times \frac{7}{10}$
= 156 + 378 = 534

43. (4) Total no. of boys in football
= $1800 \times \frac{20}{100} \times \frac{5}{9} = 200$
Total no of girls in Tennis and Swimming together
= $1800 \times \frac{25}{100} \times \frac{3}{5} + 1800 \times \frac{12}{100} \times \frac{5}{8}$
= 270 + 135 = 405
 \therefore Required ratio = 200 : 405 = 40 : 81

44. (3) Total no. of girls in all five games together
= $1800 \times \left[\frac{12}{100} \times \frac{5}{8} + \frac{13}{100} \times \frac{1}{3} + \frac{20}{100} \times \frac{4}{9} + \frac{30}{100} \times \frac{3}{10} + \frac{25}{100} \times \frac{3}{5} \right]$
= 135 + 78 + 160 + 162 + 270 = 805
Required ratio = $\left(\frac{805}{1800} \times 100\right)\%$
= 44.72 % \approx 45%

45. (5) Required difference

$$= 1800 \times \left[\frac{20}{100} \times \frac{5}{9} - \frac{12}{100} \times \frac{3}{8} \right]$$

$$= 200 - 81 = 119$$

(46-50) :

46. (5) The number series is :

$$4 + 6 = 10$$

$$10 + (6 + 7) = 23$$

$$23 + (13 + 7) = 43$$

$$43 + (20 + 7) = 70$$

$$70 + (27 + 7) = 104 \neq 108$$

$$104 + (34 + 7) = 145$$

47. (3) The number series is :

$$8 \times 0.5 + 1 = 5$$

$$5 \times 1 + 1 = 6 \neq 7$$

$$6 \times 1.5 + 1 = 10$$

$$10 \times 2 + 1 = 21$$

$$21 \times 2.5 + 1 = 53.5$$

$$53.5 \times 3 + 1 = 161.50$$

48. (4) The number series is :

$$5 \times 1 + 1 = 6 \neq 8$$

$$6 \times 2 + 1 = 13$$

$$13 \times 3 + 1 = 40$$

$$40 \times 4 + 1 = 161$$

$$161 \times 5 + 1 = 806$$

$$806 \times 6 + 1 = 4837$$

49. (2) The number series is :

$$6 + 2^3 = 14$$

$$14 + 4^3 = 78$$

$$78 + 6^3 = 294$$

$$294 + 8^3 = 806 \neq 842$$

$$806 + 10^3 = 1806$$

$$1806 + 12^3 = 3534$$

50. (1) The number series is :

$$3 \times 1 = 3 \neq 4$$

$$3 \times 2 = 6$$

$$6 \times 4 = 24$$

$$24 \times 8 = 192$$

$$192 \times 16 = 3072$$

51. (2) Milk = $\frac{4}{5} \times 40 = 32$ litres

$$\text{Water} = \frac{1}{5} \times 40 = 8 \text{ litres}$$

Let x litre of mixture taken out initially
ATQ,

$$\frac{32 - \frac{4}{5} \times x + 4}{8 - \frac{1}{5} \times x + 4} = \frac{8}{3}$$

$$\Rightarrow 540 - 12x = 480 - 8x$$

$$\Rightarrow 4x = 60$$

$$\therefore x = 15 \text{ litres}$$

52. (1) Let the age of Bipin and sumit be x and $2x$ respectively.

ATQ,

$$\Rightarrow (\text{Nitesh} - 18) = \frac{1}{2}(x + 6)$$

$$\Rightarrow \text{Nitesh} = \frac{x}{2} + 21$$

Given, $\frac{\text{sunil} + \text{Bipin} + \text{Nilesh}}{3}$

$$\Rightarrow 2x + x + \frac{x}{2} + 21 = 42 \times 3$$

$$\Rightarrow \frac{4x + 2x + x}{2} = 105$$

$$\Rightarrow x = 15 \times 2 = 30 \text{ years}$$

$$\therefore \text{Required age} = 2x + 9$$

$$= 30 \times 2 + 9 = 69 \text{ years}$$

53. (2) ATQ,

$$\Rightarrow \frac{21}{x+12} - \frac{21}{x+13} = \frac{6}{60}$$

$$\Rightarrow x^2 + 25x - 54 = 0$$

$$\Rightarrow x = -27, +2$$

$$\therefore \text{Required speed} = 2 \text{ km/hours}$$

54. (4) Required probability = $\frac{7}{36} \times \frac{6}{35}$

$$= \frac{1}{30}$$

55. (2) Let amount be ₹1000

$$\text{S.I} = \frac{1000 \times 20 \times 2}{100} = ₹ 400$$

$$\therefore \text{Amount after two years} = 1000 + 400$$

$$= ₹ 1400$$

Further after two years, amount

$$= 1400 \left(1 + \frac{12}{100} \right)^2 = ₹ 1756.16$$

$$\therefore 1756.16 \text{ unit} = ₹ 43904$$

$$\therefore 1 \text{ unit} = \frac{43904}{1756.16} = ₹ 25$$

$$\therefore \text{Required amount} = 1000 \times 25 = ₹ 25,000$$

(56-60) :

56. (2) Let the no of laptop manufactured by company P in may = x

and by company Q in may = $(1625 - x)$

ATQ,

$$x \times \frac{38}{100} + (1625 - x) \times \frac{60}{100} = 766$$

$$\Rightarrow 38x + 97500 - 60x = 76600$$

$$\Rightarrow 22x = 20900 \Rightarrow x = 950$$

$$\therefore (1625 - x) = 675$$

$$\text{and required difference} = 950 - 675 = 275$$

57. (4) No. of Laptops sold by company P in January

$$= 450 \times \frac{32}{100} = 144$$

No. of Laptop sold by company Q in July

$$= 792 \times \frac{25}{100} = 198$$

$$\therefore \text{Required \%} = \left(\frac{144}{198} \times 100 \right) \%$$

$$= 72.72 \% \approx 73\%$$

58. (2) No. of Laptop sold by company P in January

$$= 450 \times \frac{32}{100} = 144$$

\therefore No. of Laptop sold by company Q in January = $2 \times 144 - 2 = 286$

$$\therefore \text{Required no} = \frac{286}{44} \times 100 = 650$$

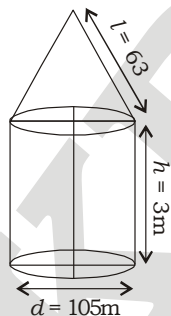
59. (4)

60. (4) Required total

$$= 260 \times \frac{45}{100} + 250 \times \frac{24}{100} = 117 + 60 = 177$$

(61-65):

61. (1)



$$\text{Radius of cone} = \frac{105}{2} \text{ m}$$

$$\text{Slant height of cone} = 63 \text{ m}$$

\therefore Curved surface area of cone = $(\pi r l)$

$$= \frac{22}{7} \times \frac{105}{2} \times 63 = 10395 \text{ m}^2$$

$$\text{Radius of cylinder} = \frac{105}{2} \text{ m}$$

$$\text{Height} = 3 \text{ m (given)}$$

\therefore Curved surface area of cylinder = $2\pi r h$

$$= 2 \times \frac{22}{7} \times \frac{105}{2} \times 3 = 990 \text{ m}^2$$

Total curved area of structure

$$= \text{Curved area of cone} + \text{curved area of cylinder} = 10395 + 990 = 11385 \text{ m}^2$$

$$\therefore \text{Total area of canvas} = 11,385 \text{ m}^2$$

62. (1) Let total unit = 50 and profit % = x
ATQ,

$$20 \times \frac{1}{4} + 30 \times \frac{x}{100} = 50 \times \frac{19}{100}$$

$$\Rightarrow \frac{3x}{10} = 4.5$$

$$\therefore x = 15\%$$

63. (4) Let the sum be ₹ x .

ATQ,

$$\left[x \left(x + \frac{5}{100} \right)^4 - x \right] - \left[\frac{x \times 10 \times 2}{100} \right] = 124.05$$

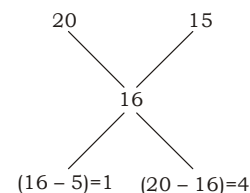
$$\Rightarrow \left[\frac{194481x}{160000} - x \right] - \left(\frac{x}{5} \right)^2 = 124.05$$

$$\Rightarrow \frac{34481x}{160000} - \frac{x}{5} = 124.05$$

$$\Rightarrow 2481x = 124.05 \times 160000$$

$$\Rightarrow x = \frac{124.05 \times 160000}{2481} = ₹8,000$$

64. (4) By Alligation method,



Required ratio = 1 : 4

65. (5) Let original fraction be = $\frac{x}{y}$

ATQ,

$$\frac{120x}{125y} = \frac{3}{5} \Rightarrow \frac{40x}{25y} = 1$$

$$\therefore \frac{x}{y} = \frac{5}{8}$$

(66-70) :

66. (5) I. $3x^2 + 29x + 36 = 0$
 $\Rightarrow 3x^2 + 21x + 8x + 36 = 0$
 $\Rightarrow 3x(x + 7) + 8(x + 7) = 0$
 $\Rightarrow (3x + 8)(x + 7) = 0$
 $\Rightarrow x = -\frac{8}{3}, -7$

II. $2y^2 + 15y + 25 = 0$
 $\Rightarrow 2y^2 + 10y + 5y + 25 = 0$
 $\Rightarrow 2y(y + 5) + 5(y + 5) = 0$
 $\Rightarrow (2y + 5)(y + 5) = 0$
 $\Rightarrow y = -\frac{5}{2}, -5$

67. (1) I. $4x^2 - 29x + 45 = 0$
 $\Rightarrow 4x^2 - 20x - 9x + 45 = 0$
 $\Rightarrow 4x(x - 5) - 9(x - 5) = 0$
 $\Rightarrow (4x - 9)(x - 5) = 0$
 $\Rightarrow x = \frac{9}{4}, 5$

II. $3y^2 + 19y + 28 = 0$
 $\Rightarrow 3y^2 + 12y + 7y + 28 = 0$
 $\Rightarrow 3y(y + 4) + 7(y + 4) = 0$
 $\Rightarrow (3y + 7)(y + 4) = 0$
 $\Rightarrow y = -\frac{7}{3}, -4$

Clearly, $x > y$

68. (5) I. $3x^2 - 13x + 12 = 0$
 $\Rightarrow 3x^2 - 9x - 4x + 12 = 0$
 $\Rightarrow 3x(x - 3) - 4(x - 3) = 0$
 $\Rightarrow (3x - 4)(x - 3) = 0$
 $\Rightarrow x = \frac{4}{3}, 3$

II. $3y^2 - 7y + 2 = 0$
 $\Rightarrow 3y^2 - 6y - y + 2 = 0$
 $\Rightarrow 3y(y - 2) - 1(y - 2) = 0$
 $\Rightarrow (3y - 1)(y - 2) = 0$
 $\Rightarrow y = \frac{1}{3}, 2$

69. (4) I. $20x^2 - 9x + 1 = 0$
 $\Rightarrow 20x^2 - 5x - 4x + 1 = 0$
 $\Rightarrow 5x(4x - 1) - 1(4x - 1) = 0$
 $\Rightarrow (5x - 1)(4x - 1) = 0$
 $\Rightarrow x = \frac{1}{5}, \frac{1}{4}$

II. $12y^2 - 7y + 1 = 0$
 $\Rightarrow 12y^2 - 4y - 3y + 1 = 0$
 $\Rightarrow 4y(3y - 1) - 1(3y - 1) = 0$
 $\Rightarrow (4y - 1)(3y - 1) = 0$
 $\Rightarrow y = \frac{1}{4}, \frac{1}{3}$

Clearly, $x \leq y$

70. (4) I. $x^2 = 16$
 $x = +4, -4$
 II. $2y^2 - 17y + 36 = 0$
 $\Rightarrow 2y^2 - 8y - 9y + 36 = 0$
 $\Rightarrow 2y(y - 4) - 9(y - 4) = 0$
 $\Rightarrow (2y - 9)(y - 4) = 0$
 $\Rightarrow (2y - 9)(y - 4) = 0$
 $\Rightarrow y = \frac{9}{2}, 4$

Clearly, $x \leq y$

ENGLISH LANGUAGE

(81-90) :

81. (2) 'not only' will just come before 'come'.
82. (2) 'were' replace with 'was' because the subject (the officer) is singular in sentence.
83. (1) 'of' Remove from sentence because consists of means comprise
84. (2) 'up' replace with 'out'.
 Bring up means alimentation
 Bring out means - publish
85. (4) 'have you not' relace with 'didn't you'.
86. (3) Remove the 'been' and make the sentence in active voice.
87. (3) 'By' relace with 'for'.
88. (5) No error.
89. (4) 'for' replace with 'with'.
90. (2) 'no' relating to me' replace with 'not related to me'.

VOCABULARIES

Words	Meaning in English	Meaning in Hindi
Distant	far-off, Not friendly	सुदूर, अलग रहने वाला
Distinct	obvious	स्पष्ट
Humble	having or showing a modest of one's own importance	नम्र/विनम्र
Intermittently	irregularly	रुक-रुक कर
Liberally	generously, Not strictly	उदारतापूर्वक
Marinally	to only a limited extent, slightly	बहुत कम, सीमांत रूप से
Measly	a small amount	बहुत कम
Panic	sudden uncontrollable fear or anxiety	भय, हलचल
Render	to cause or make	कारण होना
Paucity	the presence to something only in small or insufficient quantities, scarcity	कमी, न्यूनतम
Eradication	complete removal of something negative	किसी बुराई का जड़ से उन्मूलन
Requisite	necessary	जरूरी
Marginal	minor and not important; not central	मामूली और महत्वपूर्ण, केन्द्रहीन
Refuge	a place or satuation providing safty of settler	आश्रय स्थान
Peripheral	of less importance	कम महत्व वाला

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IBPS PO PHASE - I - 103 (ANSWER KEY)

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

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

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