IBPS PO SPECIAL PHASE - I - 278 (SOLUTION)

REASONING

(1-5):
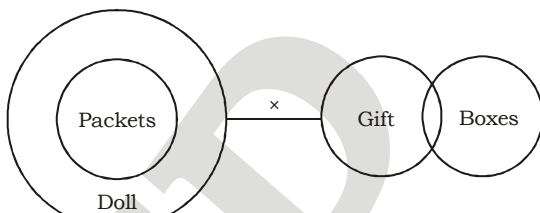

N(–)
F(–)   P(–)
G(+)   H(+)
O(+)   E(+)
M(–)
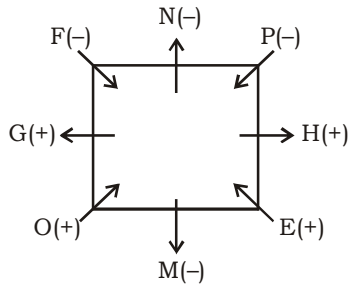
Couples

H(+)	⟺	M(–)
O(+)	⟺	P(–)
E(+)	⟺	N(–)

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

(6-10):

Floor	Person	Degree
7	S	B.Tech
6	R	MBA
5	Y	BA
4	X	BSc
3	Z	BHSc
2	W	CA
1	Q	B.Com

6. (3)   7. (5)   8. (1)   9. (3)   10. (4)

11. (2)

Packets / Doll   ×   Gift   Boxes

I. False
II. True
Hence, only conclusion II follows

12. (3)

Diary / Novel / Biography   Book
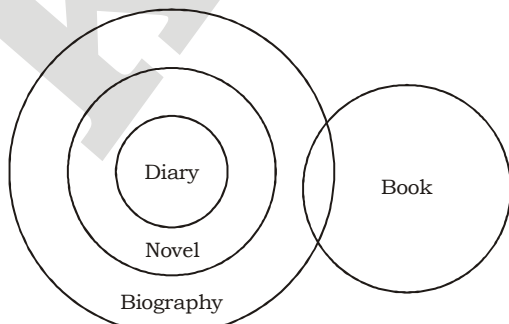
I. Doubt
II. Doubt
Hence, either conclusion I or II follows.

13. (5)

Visitor / Host / Guest   Invitees
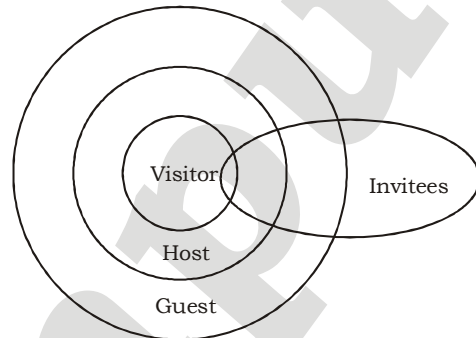
I. True
II. True
Hence, both conclusion I and II follow.

14. (5)

Packets / Doll   ×   Gift   Boxes

I. True
II. True
Hence, both conclusion I and II follow.

15. (1)

Diary / Novel / Biography   Book
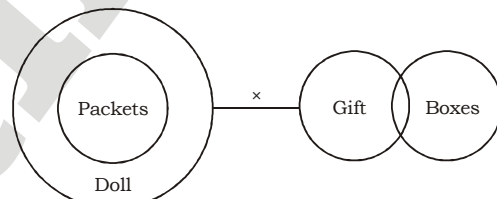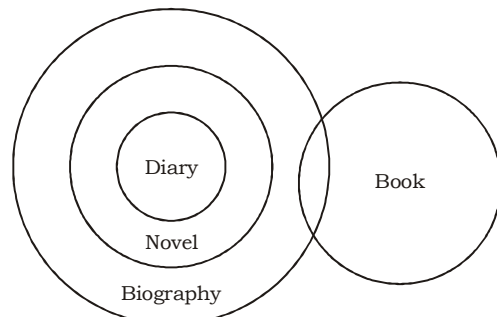
I. True
II. False
Hence, only conclusion I follows

(16-17):
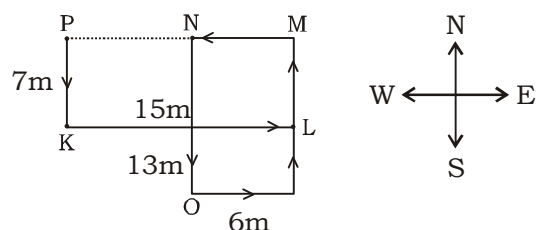
P   N   M
7m
15m   L
K
13m
O   6m

N
W ← → E
S

16. 1   17. 2

(18-22):
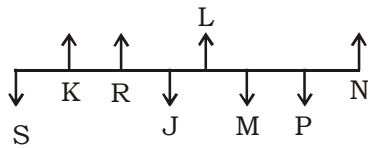
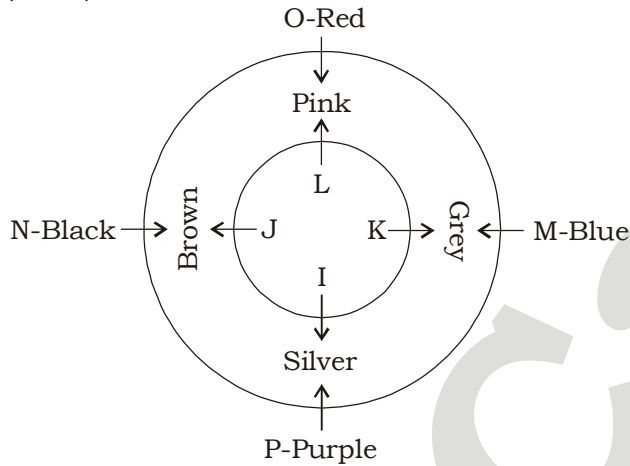18. 4   19. 3   20. 3   21. 5   22. 1
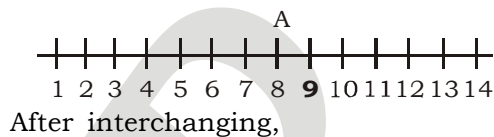
(23-25):
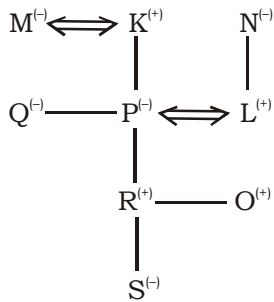
23. (4)   24. (3)   25. (4)

(26-29) :

26. (2)   27. (4)   28. (3)
29. (2)   30.(4)
30.(4) 14 students are standing in a row from left to right in the given figure.

After interchanging,

Earlier, A was at ninth position but after interchanging the position, A is sixth from the left.

(31-35) :

The machine rearranges one word and one number in each step. As for word, the words are arranged in alphabetical order while for numbers, perfect square and non-perfect square come in each alternate step in ascending order.

Input : ink 17 silent 100 burn 15 49 June 25 queen 64 3 firefox 20 time

Step I : burn 25 ink 17 silent 100.15 49 June queen 64 3 firefox 20 time

Step II: burn 25 firefox 3 ink 17 silent 100 15 49 June queen 64 20 time

Step III: burn 25 firefox 3 ink 49 17 silent 100 15 June queen 64 20 time

Step IV: burn 25 firefox 3 ink 49 June 15 17 silent 100 queen 64 20 time

Step V: burn 25 firefox 3 ink 49 June 15 queen 64 17 silent 100 20 time

Step VI: burn 25 firefox 3 ink 49 June 15 queen 64 silent 17 100 20 time

Step VII: burn 25 firefox 3 ink 49 June 15 queen 64 silent 17 time 100 20

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

Maths

(36-40):

36. $? \approx 500 + 2000 \div 40 \times 50$

$? \approx 500 + \dfrac{2000}{40} \times 50$

$\approx 500 + 2500$

≈ 3000

37. $441 - 233 + 1650 = ? + 1226$

$\Rightarrow 1858 \approx ? + 1226$

$\Rightarrow ? \approx 1858 - 1226 \approx 632$

$\therefore$ Required answer $= 630$

38. $? \approx \left(\dfrac{100 \times 216}{100}\right)^{\frac{1}{3}} + \left(\dfrac{600 \times 43}{100}\right)^{\frac{1}{2}}$

$\approx (216)^{\frac{1}{3}} + (256)^{\frac{1}{2}} = 6 + 16 = 22$

39. $? \approx \dfrac{700 \times 90}{100} + \dfrac{1000 \times 50}{100} - 170$

$\approx 630 + 500 - 170 \approx 960$

40. $? \approx (50)^2 - (9)^2 - (16)^2$

$\approx 2500 - 81 - 256 \approx 2165$

(41-45):

41. Required ratio $= \dfrac{2500 + 5500}{3500 + 3500} = \dfrac{8000}{7000} = \dfrac{8}{7}$

42. Sales of company HP in 2017 = 1.2 × 5000 = 6000
Sales of company Dell in 2017 = 1.1 × 4500 = 4950
Required Difference = 6000 – 4950 = 1050

43. Sales of both the companies in 2015 = 3500 + 5000 = 8500
Sales of both the companies in 2013 = 3000 + 2000 = 5000

Required % = $\dfrac{(8500 - 5000)}{5000} \times 100$

$= \dfrac{3500}{5000} \times 100 = 70\%$

44. Total sales of HP from 2012 to 2014
= 2500 + 2000 + 4000
Total sale of Dell from 2013 to 2015
= 3000 + 5500 + 5000 = 13500
Required Difference = 13500 – 8500 = 5000

45. Sales of HP in 2011 $= 2500 \times \dfrac{100}{125} = 2000$

Required percentage increase

$= \dfrac{(3500 - 2000)}{2000} \times 100$

$= \dfrac{1500}{2000} \times 100 = 75\%$

(46-51):

46. The pattern is :
$130 + 3^2 = 139$
$139 + 4^2 = 155$
$155 + 5^2 = 180$
$180 + 6^2 = 216$
$216 + 7^2 = \textbf{265}$

47. The given series is based on the following pattern:
Numbers are cubes of consecutive prime numbers. i.e.
$11^3 = 1331$
$13^3 = 2197$
$17^3 = 4913$
$19^3 = 6859$
$23^3 = \textbf{12167}$
$29^3 = 24389$
Hence, 12167 will come in place of the question mark.

48. The given series is based on the following pattern:

3600 725 150 35 12 7.4

÷5 + 5 ÷5 + 5 ÷5 + 5 ÷5 + 5 ÷5 + 5

Hence, 7.4 will come in place of the question mark.

49. The pattern of the number series is :
$586 + 1 = 587$
$587 + (1 - 2) = 587 - 1 = 586$
$586 + (-1 - 4) = 586 - 5 = 581$
$581 + (-5 - 6) = 581 - 11 = 570$
$570 + (-11 - 8) = 570 - 19 = 551$
$551 + (-19 \_ 10) = 551 - 29 = 522$

50. The pattern of the number series is :
$64 - 10 = 54$
$54 + 15 = 69$
$69 - 20 = 49$

$49 + 25 = 74$
$74 - 30 = 44$
$44 + 35 = \textbf{79}$

51. The pattern of the number series is :
$21 \times 0.5 = 10.5$
$10.5 \times 1 = \textbf{10.5}$
$10.5 \times 1.5 = 15.75$
$15.75 \times 2 = 31.50$
$31.50 \times 2.5 = 78.75$

52. 12 months' salary = ₹ 90 + turban

∴ 9 months' salary = (₹ 90 + turban) $\times \dfrac{9}{12}$

$= ₹\ 90 \times \dfrac{3}{4} + \dfrac{3}{4}$ turban

$= ₹\ \dfrac{135}{2} + \dfrac{3}{4}$ turban $= ₹\ 65 +$ turban

∴ $\dfrac{1}{4}$ turban $= \dfrac{135}{2} - 65 = ₹\ \dfrac{5}{2}$

∴ Turban $\Rightarrow \dfrac{5}{2} \times 4 = ₹\ 10$

53. Let the original fraction be $\dfrac{x}{y}$

∴ $\dfrac{x-4}{y+1} = \dfrac{1}{6}$

$\Rightarrow 6x - 24 = y + 1$
$\Rightarrow 6x - y = 25$ ....(i)
Again,

$\dfrac{x+2}{y+1} = \dfrac{1}{3}$

$\Rightarrow 3x + 6 = y + 1$
$\Rightarrow 3x - y = -5$ ....(ii)
By equation (i) and (ii)
$6x - y - 3x + y = 25 + 5$
$\Rightarrow 3x = 30$
$\Rightarrow x = 10$
From Equation (i),
$60 - y = 25$
$\Rightarrow y = 35$
LCM of 10 and 35 = 70

54. Let the highest score be x
∴ Lowest score = $x - 172$
∴ $x + x - 172 = 40 \times 50 - 38 \times 48$
$\Rightarrow 2x - 172 = 2000 - 1824 = 176$
$\Rightarrow 2x - 176 + 172 = 348$

$\Rightarrow x = \dfrac{348}{2} = 174$

55. Let the barrel contain 4 litres of mixture
∴ Wine = 3 litres
Water = 1 litre

Let x letres mixture is taken out.

$\therefore$ Wine in (4 – x) liters mixture = $\frac{3}{4}(4 - x)$

On adding x litres water, water in mixture

= $(4 - x) \times \frac{1}{4} + x$

= $1 - \frac{x}{4} + x$

= $\frac{4 - x + 4x}{4} = \frac{4 + 3x}{4}$

$\therefore \frac{3}{4}(4 - x)\frac{4 + 3x}{4}$

$\Rightarrow 3 - \frac{3x}{4} = 1 + \frac{3x}{4}$

$\Rightarrow 2 = \frac{6x}{4}$

$\Rightarrow x = \frac{2 \times 4}{6} = \frac{4}{3}$

$\therefore$ Required answer = $\frac{\frac{4}{3}}{4} = \frac{1}{3}$

56. If Sumit alone does the work in x days and Amit alone does the work in y days, then

$\frac{1}{x} + \frac{1}{y} = \frac{1}{5}$ ....(i)

Again,

$\frac{2}{x} + \frac{1}{3y} = \frac{1}{3}$ ....(ii)

By equation (ii) × 3 ....(i)

$\frac{6}{x} + \frac{1}{y} - \frac{1}{x} - \frac{1}{y} = 1 - \frac{1}{5}$

$\Rightarrow \frac{6}{x} - \frac{1}{x} = \frac{4}{5}$

$\Rightarrow x = \frac{25}{4} = 6\frac{1}{4}$ days

57. Ratio of profit of A, B and C in scheme S_1
80000 × 2 : 30000 × 3 : 50000 × 5
16 : 9 : 25
In scheme S_1

Profit of A = $\frac{16}{50} \times 200000 = 64000$

Profit of B = $\frac{9}{50} \times 200000 = 36000$

Profit of C = $\frac{25}{50} \times 200000 = 100000$

Ration of profit of A and C in scheme S_2
30000 × 4 : 10000 × 3
12 : 3
Profit of A in scheme S_2

= $\frac{12}{15} \times 90000 = 72000$

Profit of C in scheme S_2

= $\frac{3}{15} \times 90000 = 18000$

$64000 \times \frac{100}{18000} = 355\frac{5}{9}\%$

58. $\frac{\left[(80000 \times R \times 3)\right]}{100} - \frac{\left[(3000 \times R + 5)\right]}{100} = 3000$
R = 15%

59. Total investment of A = 1100000
Total profit of A = 136000
Rate of interest = 44%
CI= × (136000 + 110000) = 108240

60. Required average = 41000

61. Required ratio = (36000 + 10000) : 100000
= 23 : 50

62. Total numbers of ways → 7!

Favorable numbers of ways → 5!× 3!

Probability = $\frac{1}{7}$

63. Let present age of A be x year and present age of B be y years
ATQ,
x + y = 88 + 12
x + y = 100 ....(i)
x – 18 = y – 6
x – y = 12 ....(ii)
Solving (i) and (ii)
x = 56
Age of A 2 year here = 58 years

64. ATQ,
Probability of choosing one red ball from the

given box = $\frac{x}{(6 + x + 10)} = \frac{1}{3}$

$2x = 16$
x = 8
Sum of red and blue ball = 8 + 6 = 14

65. Let speed of train A be S
S × 18 = 360
S = 20 m/s
A : B = 4 : 5
Speed of B = 15 m/s
Length of train B = 25 × 12 = 300m

66. Quantity I-
Let speed of current = x
Speed of boat = x + 5x = 6x

Downstream speed = 7x

$\Rightarrow \dfrac{63}{7} = 3$

x = 3

Upstream speed = 6x – x = 5x = 15 kmph

Quantity II-

15 km/hr

Hence Quantity I = Quantity II or No relation

67. Let no. be

x, x + 2, x + 4, x + 6.....

Quantity I = x + 2 + x + 14 = 2x + 16

Quantity II = x + 4 + x + 10 = 2x + 14

Hence,

Quantity I > Quantity II

68. Quantity I = x = 3, 2

Quantity II = y = –4, 2

Quantity I $\geq$ Quantity II

69. Quantity I - Rs. 550

Quantity II - let marked price of article = M

$M \times \dfrac{7}{8} = 1500$

$M = \dfrac{12000}{7}$

Hence,

Quantity II > Quantity I

70. A's efficiency is 25% more than B

Hence Efficiency of A : B = 5 : 4

Let A does 5 unit per day

B does 4 unit per days

Let total work = 30 unit

A can do $\dfrac{5}{6}$th of total work in 'X' days

$= \dfrac{\left(\dfrac{5}{6 \times 30}\right)}{5} = 5$ days

'Y': B can do $\dfrac{4}{5}$th of total work in 'Y' days

$= \dfrac{\left(\dfrac{4}{5 \times 30}\right)}{4} = 6$ days

Quantity I = 5 days

Quantity II = 6 days

Hence,

Quantity II > Quantity I

≡ VOCABULARIES ≡

Word	Meaning in English	Meaning in Hindi
Erring	Deserving blame	दोषी, दण्डनीय
Apex court	The supreme court within the hierarchy of any legal jurisdictions.	सर्वोच्च न्यायालय
Interest	A reason for wanting something done	हित
Exempt	Free (a person or organization) from an obligation or liability imposed on others.	मुक्त करना
Disclosure	The action of making new or secret information known	रहस्योद्घाटन
Circumspection	The quality of being wary and unwilling to take risks;	सावधानी, एहतियात
Scrutiny	Critical observation or examination.	समीक्षा, छानबीन
Counter-productive	Having the opposite of the desired effect.	विपरीत परिणाम वाला
Commendable	Deserving praise.	सराहनीय
Prerogative	An exclusive right or privilege	विशेषाधिकार
Interference	The action of interfering or the process of being interfered with.	दखलंदाजी, हस्तक्षेप
Constraints	A limitation or restriction.	बाध्यता
Intervene	Come between so as to prevent or alter a result or course of events.	हस्तक्षेप करना, दखल देना
Extorts	Obtain (something) by force, threats, or other unfair means.	फिरौती लेना, छीन कर लेना
Indiscretion	Behavior or speech that is indiscreet or displays a lack of good judgment.	असावधानी, अवैचारिक
Demiurge	Cause	कारण
Credo	A statement of the beliefs or aims that guide someone's actions.	ईमान, श्रद्धा
Paradox	A statement containing two opposite ideas logically unacceptable though true.	विरोधाभास
Surfeit	An excessive amount of something.	अत्याधिक मात्रा में
Recrudescence	A return of something after a period of abatement	पुनः होने की क्रिया
Adumbrate	Report or represent in outline.	रूप रेखा प्रस्तुत करना
Obfuscate	Render obscure, unclear, or unintelligible.	अस्पष्ट करना, भ्रमित करना
Monolithic	Tediously lengthy	अति विस्तृत
Persuasion	The action of persuading someone	अनुनय–विनय
Pre-requisite	Required as a prior condition.	आवश्यक
Exceptional	Unusual; not typical.	असाधारण

IBPS PO SPECIAL PHASE - I - 278 (ANSWER KEY)

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