

IBPS PO SPECIAL PHASE - I MOCK TEST - 246 (SOLUTION)

REASONING

(1-6):

Floor	Person	Flower
8	Aditya	Marigold
7	Aakash	Hibiscus
6	Ananya	Daisy
5	Kavya	Iris
4	Shyam	Lotus
3	Radhika	Rose
2	Anuradha	Lily
1	Anamika	Jasmine

1. (2) 2. (1) 3. (4) 4. (2) 5. (3) 6. (2)

(7-8):

7. (2) **Conclusions :**

- I. Can't be compared
- II. $R \geq S$; True [$R \geq N = S$]
- III. $L \geq R$; False [$L \geq S = N \leq R$]

8. (5) **Conclusions :**

- I. $R > L$; False [$R \geq N = S \leq L$]
- II. $L > P$; False [$L \geq S = N \leq R = P$]
- III. $N \leq Q$; False [$N \leq R > Q$]

9. (5) **Conclusions :**

- I. $D > M$; True [$D > M < E$]
- II. $M < W$; True [$M < G = E \leq W$]
- III. $C \geq E$; False [$C > M < E$]

(10-11):

10. (2) **Conclusions :**

- I. $S < K$; True [$S \leq P < K$]
- II. $Q > W$; True [$Q > V \geq W$]
- III. $W \geq P$; False [$W = K > P$]

11. (3) **Conclusions :**

- I. $K > R$; True [$K > P = T > R$]
- II. $T \leq V$; False [$T = P < K \leq V$]
- III. $W > R$; True [$W > P > R$]

(12-16):

Input : train 55 only 41 most 35 year 29 first 37 cost 52 share 65

I → cost 52 train 55 only 41 most 35 year 29 first 37 share 65

II → cost 52 first 37 train 55 only 41 most 35 year 29 share 65

III → cost 52 first 37 most 35 Train 55 only 41 year 29 share 65

IV → cost 52 first 37 most 35 only 41 train 55 year 29 share 65

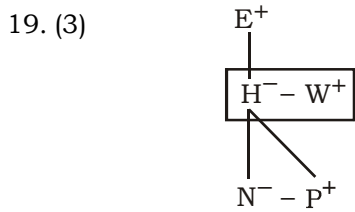
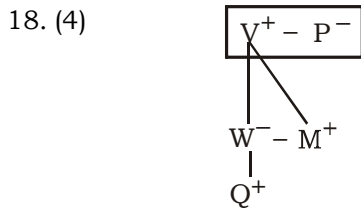
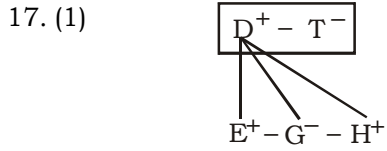
V → cost 52 first 37 most 35 only 41 share 65 train 55 year 29

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12. (3) 13. (4) 14. (1) 15. (4) 16. (3)

(17-19) :



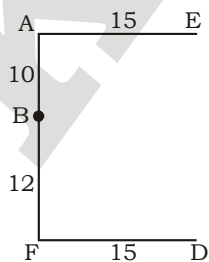
(21-22) :



21. (2) 22. (3)



(25-26) :

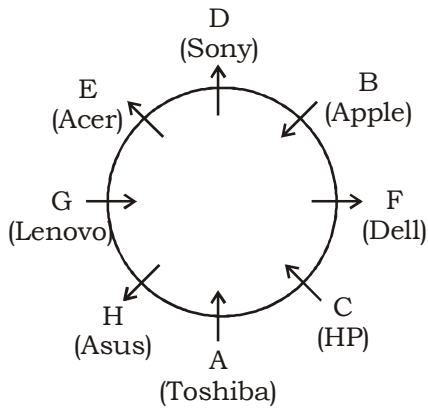


25. (2) 26. (1)

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(27-32) :



27. (1)

28. (2)

29. (3)

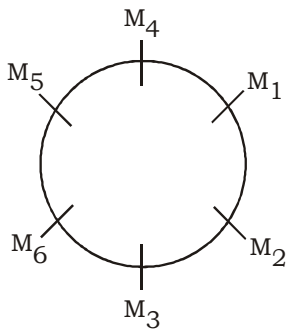
30. (4)

31. (3)

32. (4)

(33 - 35) :

33. (5)



34. (2) I. —

—
—
E
H
I

II. J

F
H
G
—
—

35. (5)

Floor	Person
5	—
4	Rohan
3	Mr. Kumar
2	Ram
1	Sameer

Maths

36. (1) ? $\approx 32 \div 4 \times 15 = \frac{32}{4} \times 15 = 120$

37. (3) ? $\approx 5 \times 13 + 600 = 665$

38. (4) $? = 21 + \frac{63}{17} = 24.70 \approx 25$

39. (2) $? = 1562 \div \frac{356 \times 24}{100}$
 $= 1562 \div 85.44 = 18.28 \approx 18$

40. (2) $? = 5986 \div 364 \times \sqrt{220}$
 $\approx \frac{5986}{364} \times 15 = 246.67 \approx 245$

41. (3) Required total = $9670 + \left(86400 \times \frac{17}{100} - 11500\right) + \left(86400 \times \frac{19}{100} - 13600\right)$
 $= 9670 + 3188 + 2816 = 15674$

42. (1) Required % = $\left[\frac{\left(86400 \times \frac{12}{100} - 6500\right)}{86400 \times \frac{18}{100}} \right] \% = \left(\frac{3868}{15552} \times 100 \right) \% = 24.87\%$

43. (5)

44. (2) Required difference = $\left[86400 \times \frac{12}{100} - \left(86400 \times \frac{18}{100} - 9670\right) \right]$
 $= 10368 - 5882 = 4486$

45. (4) Required ratio = $6500 : \left(86400 \times \frac{13}{100} - 7560\right)$
 $= 6500 : 3672 = 1625 : 918$

46. (4) The pattern is :

$2^3 + 1^2 = 9$

$3^3 + 2^2 = 31$

$4^3 + 3^2 = 73$

$5^3 + 4^2 = 141$

$6^3 + 5^2 = \mathbf{241}$

47. (4) The pattern is :

$35 + 221 = 256$

$256 + (221 - 26) = 451$

$451 + 169 (=195 - 26) = 620$

$620 + 143 (=169 - 26) = 763$

$763 + 117 (=143 - 26) = \mathbf{880}$

48. (3) The pattern is :

$130 + 3^2 = 139$

$139 + 4^2 = 155$

$155 + 5^2 = 180$

$180 + 6^2 = 216$

$216 + 7^2 = \mathbf{265}$

49. (2) The pattern is :

$$658 + 72 = 730$$

$$730 + 144 = 874$$

$$874 + 288 = 1162$$

$$1162 + 576 = \mathbf{1738}$$

50. (2) The pattern is :

$$14 + 990 = 1004$$

$$1004 + \frac{990}{5} = 1202$$

$$1202 + \frac{198}{4} = 1251.5$$

$$1251.5 + 16.5 \left(= \frac{49.5}{3} \right) = 1268$$

$$1268 + 8.25 = \mathbf{1276.25}$$

51. (2) Required% = $\left(\frac{55 - 45}{55} \times 100 \right) \%$

$$= \left(\frac{10}{55} \times 100 \right) \% = 18 \frac{2}{11} \%$$

52. (5) Required average = $\frac{70 + 64 + 45}{3} = \frac{179}{3} = 59.66$

53. (3) Required ratio = $75 : \left(\frac{55 + 45 + 75 + 50 + 60 + 45}{6} \right)$

$$= 75 : 55 = 15 : 11$$

54. (5) Required difference = $379 - 330 = 49$

55. (4)

56. (3) Required ratio = $\left(\frac{1}{6} \times 5 + \frac{3}{8} \times 4 + \frac{5}{12} \times 5 \right) : \left(\frac{5}{6} \times 5 + \frac{5}{8} \times 4 + \frac{7}{12} \times 5 \right)$

$$= 106 : 230 = 53 : 115$$

57. (3) According to total of 40 innings = $40 \times 50 = 2000$

$$\text{Total of 38 innings} = 38 \times 48 = 1824$$

∴ Sum of highest and lowest score

$$\Rightarrow x + y = 2000 - 1824 \Rightarrow x + y = 176$$

$$\text{and } x - y = 172$$

Solving Eqs. (i) and (ii), we get

$$x = 174$$

58. (3) CI - SI for 2 years = $P \left(\frac{r}{100} \right)^2$

$$\Rightarrow 45 = P \left(\frac{15}{100} \right)^2 \Rightarrow P = \frac{45 \times 100 \times 100}{15 \times 15} = ₹ 2000$$

59. (4) Let the length, breadth and height of the cube be x , $2x$ and $3x$ respectively.

$$\text{Then, volume} = x \times 2x \times 3x = 6x^3$$

New length, breadth and height = $2x$, $6x$ and $9x$ respectively.

$$\text{Now volume} = 108x^3$$

$$\text{Hence, increase in volume} = \left(\frac{108-6}{6}\right)x^3 = 17 \text{ times of original volume.}$$

60. (3) Ratio of their profit = $27000 : 81000 : 72000 = 3 : 9 : 8$

If total profit be ₹ x ,

$$\text{then B's share} = \frac{9x}{20} = 36000$$

$$\Rightarrow x = \frac{36000 \times 20}{9} = ₹ 80000$$

61. (3) Let the beginning of the year variety of bushes is x , then

$$x \times 1.1 \times 1.08 \times 0.9 = 26730$$

$$\Rightarrow x = \frac{26730}{1.1 \times 1.08 \times 0.9} = 25000$$

62. (3) According to question,

$$\text{CP of 20 articles} = \text{SP of } x \text{ articles} = 1$$

$$\therefore \text{CP of 1 articles} = \frac{1}{20}$$

$$\text{SP of 1 articles} = \frac{1}{x}$$

$$\text{Profit per cent} = \frac{\frac{1}{x} - \frac{1}{20}}{\frac{1}{20}} = \frac{25}{100}$$

$$\Rightarrow \frac{20-x}{x} = \frac{1}{4} \Rightarrow 80 - 4x = x \Rightarrow 5x = 80$$

$$\Rightarrow x = 16$$

63. (2) Let the shares of A, B and C be $(x-3)$, $(2x-7)$ and $(3x-9)$ respectively.

Then,

$$(x-3) + (2x-7) + (3x-9) = 671$$

$$\Rightarrow 6x = 690$$

$$\therefore x = ₹ 115$$

$$A = ₹ 112$$

$$B = ₹ 223$$

$$\text{and } C = ₹ 336$$

64. (1) Let the three parts be ₹ x , ₹ y , and ₹ z .

According to the question,

$$x + \frac{x \times 2 \times 5}{100} = y + \frac{y \times 3 \times 5}{100} = z + \frac{z \times 4 \times 5}{100}$$

$$\Rightarrow 1.1x = 1.15y = 1.2z$$

$$\Rightarrow \frac{x}{y} = \frac{1.15}{1.1} = \frac{23}{22}$$

$$\text{and } \frac{y}{z} = \frac{1.2}{1.15} = \frac{24}{23}$$

$$\Rightarrow x : y : z = 276 : 264 : 253$$

$$\Rightarrow x = \frac{276}{793} \times 1586 = ₹ 552$$

$$\Rightarrow y = \frac{264}{793} \times 1586 = ₹ 528$$

$$\text{and } z = \frac{253}{793} \times 1586 = ₹ 506$$

Hence, the required three parts are ₹ 552, ₹ 528 and ₹ 506.

65. (1) By question,

$$\therefore \frac{M_1 D_1 T_1}{W_1} = \frac{M_2 D_2 T_2}{W_2}$$

$$\therefore \frac{5 \times 10 \times 8}{100} = \frac{8 \times D_2 \times 6}{30}$$

$$\Rightarrow D_2 = \frac{5 \times 10 \times 8 \times 30}{100 \times 8 \times 6} = 2 \frac{1}{2} \text{ days}$$

66. (5) I. $\sqrt{25x^2} - 125 = 0$

$$\Rightarrow \sqrt{25x^2} = 125$$

$$\Rightarrow 25x^2 = 125 \times 125$$

$$\Rightarrow x^2 = \frac{125 \times 125}{25} = 625$$

$$\therefore x = \pm 25$$

$$\text{II. } \sqrt{361}y + 95 = 0$$

$$\Rightarrow 19y = -95$$

$$\Rightarrow y = -5$$

Clearly $x > y$

67. (3) I. $\frac{5}{7} - \frac{5}{21} = \frac{\sqrt{x}}{42}$

$$\Rightarrow \frac{15-5}{21} = \frac{\sqrt{x}}{42}$$

$$\Rightarrow \sqrt{x} = \frac{10}{21} \times 42 = 20$$

$$\therefore x = 20 \times 20 = 400$$

$$\text{II. } \frac{\sqrt{y}}{4} + \frac{\sqrt{y}}{16} = \frac{250}{\sqrt{y}}$$

$$\Rightarrow \frac{4\sqrt{y} + \sqrt{y}}{16} = \frac{250}{\sqrt{y}}$$

$$\Rightarrow 5\sqrt{y} \times \sqrt{y} = 250 \times 16$$

$$\Rightarrow 5y = 250 \times 16$$

$$\Rightarrow y = \frac{250 \times 16}{5} = 800$$

Clearly $x < y$

68. (1) I. $(625)^{\frac{1}{4}}x + \sqrt{1225} = 155$

$$\Rightarrow (5^4)^{\frac{1}{4}}x + 35 = 155$$

$$\Rightarrow 5x = 155 - 35$$

$$\Rightarrow 5x = 120$$

$$\Rightarrow x = \frac{120}{5} = 24$$

II. $\sqrt{196}y + 13 = 279$

$$\Rightarrow 14y = 279 - 13 = 266$$

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

Clearly $x > y$

69. (1) I. $5x^2 - 18x + 9 = 0$

$$\Rightarrow 5x^2 - 15x - 3x + 9 = 0$$

$$\Rightarrow 5x(x - 3) - 3(x - 3) = 0$$

$$\Rightarrow (5x - 3)(x - 3) = 0$$

$$\Rightarrow x = \frac{3}{5} \text{ or } 3$$

II. $3y^2 + 5y - 2 = 0$

$$\Rightarrow 3y^2 + 6y - y - 2 = 0$$

$$\Rightarrow 3y(y + 2) - 1(y + 2) = 0$$

$$\Rightarrow (3y - 1)(y + 2) = 0$$

$$\Rightarrow y = \frac{1}{3} \text{ or } -2$$

Clearly $x > y$

70. (3) I. $\frac{13}{\sqrt{x}} + \frac{9}{\sqrt{x}} = \sqrt{x}$

$$\Rightarrow 13 + 9 \Rightarrow \sqrt{x} \times \sqrt{x} = x$$

$$\Rightarrow x = 22$$

II. $y^4 = \frac{(26)^{\frac{9}{2}}}{\sqrt{y}}$

$$\Rightarrow y^4 \times y^{\frac{1}{2}} = (26)^{\frac{9}{2}}$$

$$\Rightarrow (y)^{\frac{9}{2}} = (26)^{\frac{9}{2}}$$

$$\Rightarrow y = 26$$

Clearly $x < y$

ENGLISH

71. (4) The most appropriate phrase to replace the phrase given in bold is “is very different from”. In the given sentence, ‘than’ should be replaced with ‘from’ because ‘different’ is followed by ‘from’. Also keep in mind that, ‘than’ is used after ‘different’, but only in the cases where ‘different’ is followed by a noun. For example, I read a different novel than this. Since option (4) is in the precise grammatical syntax, it becomes the most suitable answer choice.
72. (2) The most appropriate phrase to replace the phrase given in bold is “statistics with regard to”. It is to be noted that ‘Statistics’, when used as a subject, always takes a singular verb. For example, Statistics is not an easy subject. But, whenever ‘statistics’ denotes some statistical facts or data, the very following it is always plural, which is the case here. Since option (2) is in the precise grammatical syntax, it becomes the most suitable answer choice.
73. (5) The phrase given in sentence is grammatically correct and does not require any replacement. Hence, option (5) i.e. “No replacement required” is the correct answer.
74. (3) The most appropriate phrase to replace the phrase given in bold is “I smelled”. It is to be noted that after ‘As soon as, As long as, So long as’, we don’t use ‘than/then’. Since option (3) is in the precise grammatical syntax, it becomes the most suitable answer choice.
75. (1) The most appropriate phrase to replace the phrase given in bold is “he was able”. It is to be noted that ‘Although/Though’ is followed by ‘yet’ and not ‘but/and/or/else’. And in writing, many a times, ‘yet’ is replaced by a ‘comma’, which is the case here. Since option (1) is in the precise grammatical syntax, it becomes the most suitable answer choice.
76. (3) The most appropriate phrase to replace the phrase given in bold is “denied that they are”. It is to be noted that ‘not’ will not be used after ‘deny’ because deny already means refuse to admit. Since option (3) is in the precise grammatical syntax, it becomes the most suitable answer choice.
77. (2) The most appropriate phrase to replace the phrase given in bold is “who did not love”. It is to be noted that after ‘did’ we always use the first form of the verb i.e. V1. Since option (2) is in the precise grammatical syntax, it becomes the most suitable answer choice.
78. (4) The most appropriate phrase to replace the phrase given in bold is “is exceptionally”. It is to be noted that ‘good’ is an adjective, so ‘exceptional’ should be replaced by ‘exceptionally’. ‘Exceptional’ is itself an adjective and we all know that an adjective never defines another adjective, but an adverb does. Since option (4) is in the precise grammatical syntax, it becomes the most suitable answer choice.
95. (5) Analogy means a comparison between one thing and another, typically for the purpose of explanation or clarification. Variance means the fact or quality of being different, divergent, or inconsistent.
96. (2) Out of all the given options, only combination of sentences (A) and (F) makes a grammatically and contextually correct sentence. Hence, option (2) is the correct answer.
97. (4) Out of all the given options, only combination of sentences (B) and (D) makes a grammatically and contextually correct sentence. Hence, option (4) is the correct answer.
98. (1) Out of all the given options, only combination of sentences (C) and (E) makes a grammatically and contextually correct sentence. Hence, option (1) is the correct answer.
99. (5) Out of all the given options, none of the combinations of sentences makes a grammatically and contextually correct sentence. Hence, option (5) is the correct answer.
100. (3) Out of all the given options, combination of sentences (B) and (F) together as well as combination of sentences (C) and (D) together makes a grammatically and contextually correct sentence. Hence, option (3) is the correct answer.

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IBPS PO SPECIAL PHASE -I MOCK TEST - 246 (ANSWER KEY)

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