

**IBPS PO SPECIAL PHASE - I MOCK TEST - 245 (SOLUTION)**

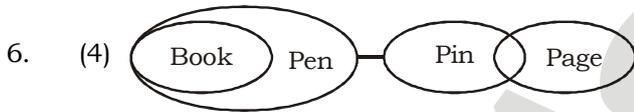
**REASONING**

(1-5):

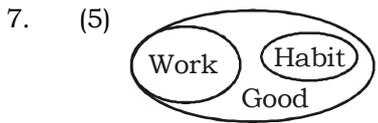
| Floor | Person | Bank                  |
|-------|--------|-----------------------|
| 8     | A      | Canara Bank           |
| 7     | F      | Bank of India         |
| 6     | H      | Central Bank of India |
| 5     | E      | Dena Bank             |
| 4     | B      | Bank of Baroda        |
| 3     | C      | State Bank of India   |
| 2     | G      | Syndicate Bank        |
| 1     | D      | Punjab National Bank  |

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

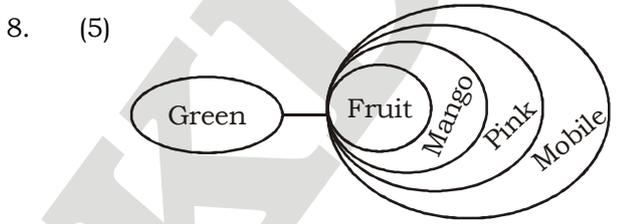
(6-10):



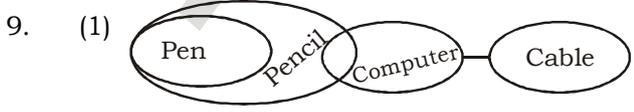
- I. False            II. False            III. False  
Hence, none follows



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



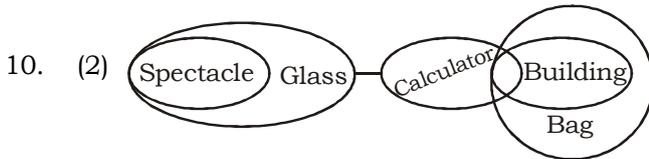
- I. False            II. True            III. False            IV. True



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

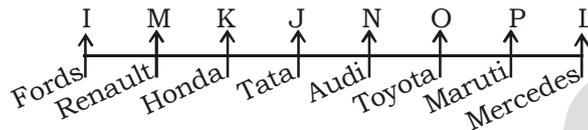
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- I. False      II. True      III. False  
Hence, only II follows

**(11-15):**



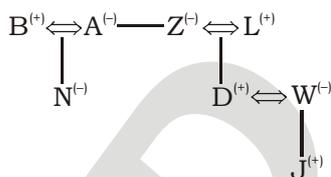
11. (1)      12. (1)      13. (4)      14. (4)      15. (1)

**(16 - 20):**

# → ≤      % → =      & → <      \$ → ≥      @ → >

16. (1)  $Z \geq X > W = V$   
I.  $Z > V \rightarrow$  True      II.  $X = V \rightarrow$  False      II.  $V \leq Z \rightarrow$  False  
Hence, only I is true
17. (4)  $B > X \leq F \geq H$   
I.  $F > B \rightarrow$  False      II.  $H = X \rightarrow$  False      III.  $H \leq B \rightarrow$  False  
Hence, none is true
18. (3)  $Z < S > T \geq U$   
I.  $U \leq S \rightarrow$  False      II.  $T < Z \rightarrow$  False      III.  $S > U \rightarrow$  True  
Hence, only III is true
19. (2)  $K = H \leq G < I$   
I.  $H < I \rightarrow$  True      II.  $G \geq K \rightarrow$  True      III.  $K \leq I \rightarrow$  False  
Hence, I and II are true
20. (3)  $T > Y \geq G \leq W$   
I.  $G = T \rightarrow$  False      II.  $T \leq G \rightarrow$  False      III.  $T > G \rightarrow$  True  
Hence, only III is true

**(21-23):**



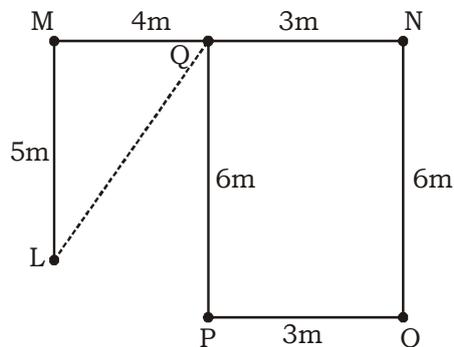
21. (1)      22. (4)      23. (1)

**(24-28):**

| Day       | Friend | Hill Station |
|-----------|--------|--------------|
| Monday    | Y      | Manali       |
| Tuesday   | X      | Nainital     |
| Wednesday | Z      | Nainital     |
| Thursday  | K      | Ooty         |
| Friday    | L      | Ooty         |
| Saturday  | J      | Manali       |
| Sunday    | A      | Manali       |

24. (3)      25. (4)      26. (1)      27. (4)      28. (3)

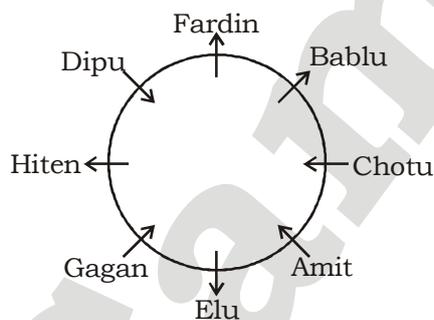
(29-30):



29. (3)  $QL = \sqrt{5^2 + 4^2} = \sqrt{25 + 16} = \sqrt{41}$  m

30. (4)

(31-35):



31. (2)

32. (3)

33. (1)

34. (2)

35. (3)

**Maths**

(36-40):

36. (3)  $34928 - 2591 - 14986 = ?$

$\Rightarrow ? = 17351$

37. (3)  $27\% \text{ of } 450 - ?\% \text{ of } 375 = 76.5$

$\Rightarrow 450 \times \frac{27}{100} - 375 \times \frac{?}{100} = 76.5$

$\Rightarrow 375 \times \frac{?}{100} = 121.5 - 76.5$

$\Rightarrow ? = \frac{45 \times 100}{375} = 12$

38. (1)  $17\frac{2}{3} \times 1\frac{17}{106} = ?$

$\Rightarrow \frac{53}{3} \times \frac{123}{106} = \frac{41}{2} = 20\frac{1}{2}$

39. (2)  $(12 \times 19) + (13 \times 8) = (15 \times 14) + ?$

$\Rightarrow 228 + 104 = 210 + ?$

$\Rightarrow ? = 332 - 210 = 122$

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40. (1)  $7^{8.9} \div (343)^{1.7} \times (49)^{4.8} = 7^?$   
 $\Rightarrow 7^{8.9} \div (7)^{3 \times 1.7} \times (7)^{2 \times 4.8} = 7^?$   
 $\Rightarrow 7^{8.9} \div 7^{5.1} \times 7^{9.6} = 7^?$   
 $\Rightarrow ? = 8.9 - 5.1 + 9.6 = 13.4$

**(41-45):**

41. (3) Average number of sale per shopkeeper in city P =  $60 \times \frac{125}{100} = 75$

$\therefore$  Required number of mobiles =  $28 \times 75 \times \frac{3}{7} = 900$

42. (4) Required number of non-4G mobiles sold in city T =  $24 \times 45 \times \frac{45}{100} = 486$

43. (3) Total number of moiles sold in city Q =  $\frac{1920}{60} \times 100 = 3,200$

$\therefore$  Required number of shopkeeper =  $\frac{3200}{80} = 40$

44. (2) Total number of mobiles sold in city U =  $\frac{3150}{7} \times 10 = 4,500$

$\therefore$  Required number of mobiles =  $4500 \times \frac{36}{100} = 1,620$

45. (5) % of 4G mobiles sold in city S =  $36 \times \frac{120}{100} = 43.2\%$

Total number of mobiles sold in city S =  $\frac{1420}{56.8} \times 100 = 2,500$

$\therefore$  Reuired average =  $\frac{2500 + 1420}{35} = 112$

**(46-50):**

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

$$\begin{array}{cccccc} 240 & 48 & 12 & 4 & 2 & 2 \\ \hline \underbrace{\quad \quad \quad}_{\div 5} & \underbrace{\quad \quad}_{\div 4} & \underbrace{\quad \quad}_{\div 3} & \underbrace{\quad \quad}_{\div 2} & \underbrace{\quad \quad}_{\div 1} & \end{array}$$

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

$$\begin{array}{cccccc} & & +5 & & +9 & & \\ & & \downarrow & & \downarrow & & \\ 7 & 8 & 4 & 13 & -3 & 22 & -14 \\ \hline \underbrace{\quad \quad}_{-3} & & \underbrace{\quad \quad}_{-7} & & \underbrace{\quad \quad}_{-11} & & \end{array}$$

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

$640 - 2^8 = 384$   
 $384 - 2^7 = 256$   
 $256 - 2^6 = 192$   
 $192 - 2^5 = 160$   
 $160 - 2^4 = \mathbf{144}$

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

$11 + (16 \times 1) = 27$   
 $27 + (16 \times 2) = \mathbf{59}$   
 $59 + (16 \times 3) = 107$   
 $107 + (16 \times 4) = 171$   
 $171 + (16 \times 5) = 251$

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

$$3 + 1^2 = 4$$

$$4 + 3^2 = 13$$

$$13 + 5^2 = 38$$

$$38 + 7^2 = 87$$

$$87 + 9^2 = \mathbf{168}$$

51. (2) According to the options,

253 is right option.

$$\text{i.e. } 352 - 253 = 99$$

$$\text{and } 2 + 5 + 3 = 10$$

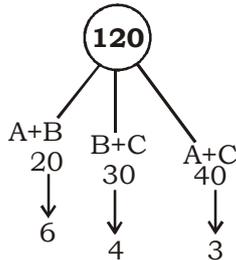
$$\text{and } 2 + 3 = 5$$

52. (4) Required quantity of milk =  $216 \times \left(1 - \frac{36}{216}\right)^2$

$$= 216 \times \frac{5}{6} \times \frac{5}{6} = 150 \text{ litres}$$

53. (1) Required % =  $\left(\frac{16-9}{16} \times 100\right)\% = 43.75\% \approx 44\%$

54. (4)



$\therefore$  A, B and C complete the work in  $\frac{120 \times 2}{13} = \frac{240}{13}$  days

$\therefore$  A completes the work in  $1 \div \left(\frac{13}{240} - \frac{1}{30}\right) = 48$  days

C completes the work in  $1 \div \left(\frac{13}{240} - \frac{1}{20}\right) = 240$  days

Required ratio =  $48 : 240 = 1 : 5$

55. (1)  $R = 15\% = \frac{3}{20}$

$$\begin{array}{r} 20 \\ 20 \\ 20 \end{array} \quad \begin{array}{r} 23 \\ 23 \\ 23 \end{array}$$

$$P = 8000 \quad 12167 = A$$

$\therefore$  CI =  $12167 - 8000 = 4167$

Now,

$$4167 \text{ unit} = ₹6500.52$$

$\therefore$  8000 units =  $\frac{6500.52}{4167} \times 8000 = ₹12,480$

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(56-60) :

56. (5) Number of employees in company Q in the year 2011 =  $200 \times \frac{130}{100} = 260$

$\therefore$  Required ratio =  $260 : 320 = 13 : 16$

57. (3) Required difference =  $(320 + 310) - (350 + 270)$   
 $= 630 - 620 = 10$

58. (3) Required average =  $\frac{200 + 180 + 120 + 200}{4} = 175$

59. (2) Required % =  $\left(\frac{350 - 140}{350} \times 100\right)\% = 60\%$

60. (4) Required % =  $\left(\frac{440 - 260}{260} \times 100\right)\% = 69.23\% \approx 69\%$

61. (2) Total distance covered by train in 20 seconds =  $108 \times \frac{5}{18} \times 20 = 600$  meters

$\therefore$  Length of platform =  $600 - 280 = 320$  meters

Required speed of man =  $\frac{320}{40} = 8$  m/s

62. (3) Diameter = 56 cm.

$\therefore$  Circumference =  $\pi d = \frac{22}{7} \times 56 = 176$  cm.

Perimeter of square =  $272 - 176 = 96$  cm.

Side of square =  $\frac{96}{4} = 24$  cm.

Area of circle + Area of square =  $\pi r^2 + (\text{side})^2$

=  $\frac{22}{7} \times 28 \times 28 + (24)^2 = 2464 + 576 = 3,040$  sq.cm.

63. (5) Let the sum be ₹x.

ATQ,

$$\frac{x \times 15 \times 5}{100 \times 12} - \frac{x \times 8 \times 4}{12 \times 100} = 129$$

$\Rightarrow 75x - 32x = 129 \times 1200$

$\Rightarrow 43x = 129 \times 1200$

$\Rightarrow x = \frac{129 \times 1200}{43} = ₹3,600$

64. (2) Required probability =  $\frac{{}^{2C_1} \times {}^{4C_2} \times {}^{3C_1}}{{}^9C_4}$

=  $\frac{2 \times 6 \times 3}{18 \times 7} = \frac{2}{7}$

65. (2) Required average speed

=  $\frac{\frac{30 + 30}{\frac{30}{6} + \frac{30}{3}}}{5 + 10} = 4$  km/hr.

**(66-70) :**

66. (2) I.  $x^2 - 11x + 24 = 0$   
 $\Rightarrow x^2 - 8x - 3x + 24 = 0$   
 $\Rightarrow x(x - 8) - 3(x - 8) = 0$   
 $\Rightarrow x = 8, 3$   
II.  $2y^2 - 9y + 9 = 0$   
 $\Rightarrow 2y^2 - 6y - 3y + 9 = 0$   
 $\Rightarrow 2y(y - 3) - 3(y - 3) = 0$

$\Rightarrow y = 3, \frac{3}{2}$

Clearly,  $x \geq y$

67. (1) I.  $5x = 16$   
 $\Rightarrow x = \frac{16}{5}$   
II.  $y^3 \times 14 = 351 + y^3$   
 $\Rightarrow 14y^3 - y^3 = 351$   
 $\Rightarrow 13y^3 = 351$

$\Rightarrow y^3 = \frac{351}{13} = 27$

$\Rightarrow y = 3$

Clearly,  $x > y$

68. (3) I.  $3x^2 - 13x + 14 = 0$   
 $\Rightarrow 3x^2 - 6x - 7x + 14 = 0$   
 $\Rightarrow 3x(x - 2) - 7(x - 2) = 0$

$\Rightarrow x = 2, \frac{7}{3}$

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

Clearly,  $x < y$

69. (5) I.  $(441)^{\frac{1}{2}} x^2 - 111 = (15)^2$   
 $\Rightarrow 21x^2 = 225 + 111$

$\Rightarrow x^2 = \frac{336}{21}$

$\Rightarrow x^2 = 16$

$\Rightarrow x = +4, -4$

II.  $\sqrt{121} y^2 + 6^3 = 260$

$\Rightarrow 11y^2 = 260 - 216$

$\Rightarrow 11y^2 = 44$

$\Rightarrow y^2 = 4$

$\Rightarrow y = +2, -2$

70. (1) I.  $5x + 2y = 96$  .....(i)  
 $3(7x + 5y) = 489$  ... (ii)  
Equation (i)  $\times 15$  - equation (ii)  $\times 2$ , we get,  
 $75x + 30y - 42x - 30x = 1440 - 978$   
 $\Rightarrow 33x = 462$   
 $\Rightarrow x = 14$   
Put the value of  $x$  is euqation (i),  
 $5 \times 14 + 2y = 96$   
 $\Rightarrow 2y = 96 - 70$   
 $\Rightarrow 2y = 26$   
 $\Rightarrow y = 13$   
Clearly,  $x > y$

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81. (1) "to retain trust and credibility in this age of" is the correct phrase to make the sentence grammatically correct. If we go by the options considering their grammar syntax, only option (I) fits into the sentence perfectly adding the required meaning to the sentence. Moreover, "in this age of anonymous communication" is the correct phrase usage which means "in this distinct period of anonymous communication". Hence (1) is the correct option.
82. (4) "Is it possible for" is the correct phrase to make the sentence grammatically correct. In the given sentence, the phrase "How it is" is incorrect as the sentence is Interrogative. Thus the correct phrase should be "How is it possible for." It is to be noticed that the sentence is in Simple Present Tense. Thus both (I) and (III) are the correct phrases that may replace the phrase given in bold to make the sentence grammatically correct. Hence (4) is the correct option.
83. (5) The given sentence is grammatically correct as the plural verb "are" is used in accordance to its plural subjects "continuity and change". Moreover, the phrase "with each other" is used to frame a relation with the two. Hence the sentence doesn't require any correction. The three given phrases in the options make no relevant substitution to the phrase given in bold in the sentence as they do not follow the correct grammar syntax required for the sentence. Hence (5) is the correct option.
84. (4) "While cyberspace may have given" is the correct phrase to make the sentence grammatically correct. First of all, it is to be noted that the sentence is conditional as the second part of the sentence is dependent on the first part. When we consider options provided, option (I) can be easily eliminated as the use of "As" or "Since" is incorrect in this case ("As/Since" is generally used to express the cause of its dependent clause). Moreover, "while" is the correct usage as it means "in spite of the fact that; although". Thus both the phrases (II) and (III) provide the grammatically correct and meaningful sentences. Hence (4) is the correct option.
85. (5) The given sentence is grammatically correct as the sentence is not in Passive form. It clearly follows the syntax of Present Continuous Tense and the use of reflexive pronoun "itself" is correct as it is used for the subject "The Hermit Kingdom". Moreover, the three phrases given in options do not follow the correct structure required for the sentence to make it grammatically correct. Hence (5) is the correct option.
86. (2) "have come down with the increased" is the correct phrase to make the sentence grammatically correct as the sentence is in Present Tense. It is to be noticed that the speed of trucks can't be decreased as it is clearly mentioned that the highways have become clutter-free. Thus the options (I) and (III) can be easily eliminated. Also, the phrasal verb "come down" means collapse or be demolished. Hence (2) is the correct option.

87. (1) "is the most effective way of staying" is the correct phrase to make the sentence grammatically correct as the sentence is in generalized and factual form. Thus the use of "could" or "can" is incorrect in this case. Moreover, the phrases connected with the conjunction "and" should be in similar form. Thus among the given options, only option (I) has the correct grammar structure to correctly fit into the sentence. Hence (1) is the correct option.
88. (3) "grew up in free India bearing the names of" is the correct phrase to make the sentence grammatically correct as the sentence refers to the event related to the past. If we go by the options, options (I) and (II) are not in accordance with correct grammar structure. Only option (III) possesses correct syntax to supplement its usage in the sentence. The phrasal verb "grew up" means became an adult. Hence (3) is the correct choice.
89. (5) The given sentence is grammatically correct. It is to be noted that the sentence is not conditional and thus all the given options are incorrect. Hence (5) is the correct option.
90. (3) "apart from various goodies being dangled" is the correct phrase to make the sentence grammatically correct. Option (II) can be easily eliminated as it lacks the correct syntax. Option (I) also fits into the sentence quite correctly as it adds similar meaning to the sentence. The phrasal verb "apart from" means in addition to; besides; as well as. Thus the phrase (I) also provides a grammatically correct sentence. Hence (3) is the correct option.

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**IBPS PO SPECIAL PHASE -I MOCK TEST - 245 (ANSWER KEY)**

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