



33. (1) **Conclusions :**

I.  $B > N \longrightarrow$  True

II.  $S \geq A \longrightarrow$  False

34. (4) **Conclusions :**

I.  $R > T \longrightarrow$  Can't say

II.  $S > I \longrightarrow$  True

35. (1) **Conclusions :**

I.  $U > L \longrightarrow$  True

II.  $G \leq L \longrightarrow$  False

**MATHS**

36. (2)  $\Rightarrow 95^2 \approx 95^4 \div 95^1$

$$\Rightarrow 95^2 = 95^{4-1} = 95^3$$

$$\Rightarrow ? \approx 3$$

37. (2)  $? \approx \sqrt{10000} + \frac{3}{5} \times 1892$

$$= 100 + 1135.2$$

$$= 1235.2 \approx 1230$$

38. (3)  $? \approx \frac{0.0004}{0.0001} \times 36 = 4 \times 36$

$$= 144 \approx 145$$

39. (1)  $? = 12345 \times \frac{137}{100}$

$$= 16912.65 \approx 17000$$

40. (3)  $? = 3739 + 164 \times 27$

$$= 3739 + 4428$$

$$= 8167 \approx 8200$$

41. (1) Required average =  $\frac{250 + 550 + 400}{3}$

$$= \frac{1200}{3} = 400$$

42. (5) Number of valid votes polled by males =  $7600 - 1875 = 5725$

43. (4) Required average =  $\frac{2250 + 7600 + 4250}{3}$

$$= \frac{14100}{3} = 4700$$

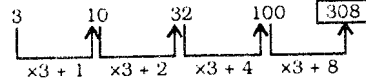
44. (3) Required % =  $\left(\frac{2500}{6720} \times 100\right)\%$

$$= 37.20\%$$

$$\approx 37\%$$

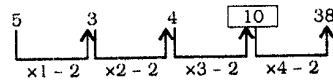
45. (2) Required % =  $\left(\frac{8000 - 4600}{8000} \times 100\right)\%$   
= 42.50%

46. (3) The given series is based on the following pattern:



Hence, 308 will come in place of question mark.

47. (5) The given series is based on the following pattern:



Hence, 10 will come in place of question mark.

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

$$5 \times 1 + (1)^2 = 6$$

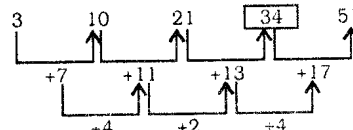
$$6 \times 2 + (2)^2 = \mathbf{16}$$

$$16 \times 3 + (3)^2 = 57$$

$$57 \times 4 + (4)^2 = 244$$

Hence, 16 will come in place of question mark.

49. (1) The given series is based on the following patterns.



Hence, 34 will come in place of question mark.

50. (4) The given series is based on the following pattern:

$$5 \times 2 + 1 = 11$$

$$11 \times 2 + 3 = \mathbf{25}$$

$$25 \times 2 + 5 = 55$$

$$55 \times 2 + 7 = 117$$

51. (5) According to the question,  
Sum of five numbers =  $5 \times 306.4$   
= 1532

$$\therefore \text{Third number} \\ = 1532 - 2 \times 431 - 2 \times 214.5 \\ = 1532 - 862 - 429 = 241$$

52. (2)  $SI = \frac{15000 \times 9 \times 2}{100} = ₹ 2700$

$$CI = 12000 \left[ \left(1 + \frac{8}{100}\right)^2 - 1 \right]$$

$$= 12000 \left[ \left(\frac{27}{25}\right)^2 - 1 \right]$$

$$= 12000 \left[ \frac{729 - 625}{625} \right]$$

$$= 12000 \times \frac{104}{625} = ₹ 1996.8$$

∴ Total interest earned  
= ₹ (2700 + 1996.8) = ₹ 4696.8

53. (1) Let the listed price be ₹  $x$ .  
Discount = 30% of  $x$

$$= \frac{30x}{100} = ₹ \frac{3x}{10}$$

According to the question,

$$\frac{3x}{10} = 82.5$$

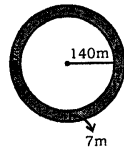
$$\Rightarrow x = \frac{82.5 \times 10}{3} = ₹ 275$$

∴ Required cost price of calculator  
= 70% of 275

$$= ₹ \frac{70 \times 275}{100} = ₹ 192.50$$

54. (2) Required time = LCM of 18, 24 and 32  
seconds = 288 seconds.

55. (5)



Radius of the field = 140 m

Width of garden = 7 m

∴ Area of garden

$$= \pi (147^2 - 140^2)$$

$$= \frac{22}{7} (147 + 140) (147 - 140)$$

$$= 22 \times 287 = 6314 \text{ m}^2$$

Required cost = ₹ (21 × 6314)

$$= ₹ 132594$$

56. (4) Required % =  $\left( \frac{760}{2640} \times 100 \right) \% = 28.78\%$   
 $\approx 28\%$

57. (3) Required difference = (440 + 760) - (260 + 320)  
= 1200 - 580 = 620

58. (2) Required ratio = (340 + 320 + 440) : (320 + 660 + 440)  
= 1100 : 1420  
= 55 : 71

59. (5) Required ratio =  $440 \times \frac{110}{100} : 760 \times \frac{115}{100}$

$$= 484 : 874$$

$$= 242 : 437$$

60. (3) Required difference

$$= \left( \frac{340 + 480 + 320 + 750 + 440 + 760}{6} \right)$$

$$- \left( \frac{260 + 320 + 420 + 660 + 540 + 440}{6} \right)$$

$$= 520 - 440$$

$$= 80$$

61. (3) Total equivalent capital of A

$$= 5x \times 12 + 8x \times 12 = ₹ 156x$$

Total equivalent capital of B

$$= 6x \times 24 = ₹ 144x$$

Total equivalent capital of C

$$= 8x \times 12 + 4x \times 12 = ₹ 144x$$

∴ Required ratio = A : B : C

$$= 156x : 144x : 144x$$

$$= 13 : 12 : 12$$

62. (2) Let Vipul's salary = ₹  $x$

$$5\% \text{ of } x = ₹ \frac{5x}{100} = ₹ \frac{x}{20}$$

As given,

$$1687.50 = \frac{75}{100} \times \frac{x}{20} = \frac{3x}{80}$$

$$\Rightarrow 3x = 1687.50 \times 80$$

$$\Rightarrow x = \frac{1687.50 \times 80}{3} = ₹ 45000$$

63. (4) Total weight of the mixture

$$= 40 + 25 = 65 \text{ kg}$$

Total cost price of wheat

$$= ₹ (40 \times 12.50 + 25 \times 15.10)$$

$$= ₹ (500 + 377.50) = ₹ 877.50$$

Total selling price of wheat

$$= ₹ \frac{877.50 \times 110}{100}$$

$$= ₹ 965.25$$

$$\therefore \text{SP per kg} = ₹ \frac{965.25}{65}$$

$$= ₹ 14.85$$

64. (2) (B+C)'s 1 day's work =  $\frac{1}{8}$  ... (i)

$$(A+B)'s 1 \text{ day's work} = \frac{1}{12} \text{ ... (ii)}$$

$$(A+C)'s 1 \text{ day's work} = \frac{1}{16} \text{ ... (iii)}$$

On adding all these three equations,  
2 (A + B + C)'s 1 day's work

$$\Rightarrow \frac{1}{8} + \frac{1}{12} + \frac{1}{16} = \frac{6+4+3}{48} = \frac{13}{48}$$

$$\Rightarrow (A + B + C)'s\ 1\ day's\ work = \frac{13}{96}$$

∴ A, B and C together can complete the

$$\text{work in } \frac{96}{13} = 7\frac{5}{13} \text{ days}$$

65. (4) When a train crosses a platform, the distance covered = Length of platform and the train.

$$\text{Speed} = \frac{\text{Length of (platform + train)}}{\text{Time taken}}$$

Thus we have inadequate data.

66. (5) I.  $\Rightarrow p^2 + 3p + 2p + 6 = 0$

$$\Rightarrow p(p + 3) + 2(p + 3) = 0$$

$$\Rightarrow (p + 3)(p + 2) = 0$$

$$\Rightarrow p = -2 \text{ or } -3$$

- II.  $\Rightarrow q^3 + q + 2q + 2 = 0$

$$\Rightarrow q(q + 1) + 2(q + 1) = 0$$

$$\Rightarrow (q + 1)(q + 2) = 0$$

$$\Rightarrow q = -1 \text{ or } -2$$

Obviously  $p \leq q$

67. (4) I.  $\Rightarrow p = \pm 2$

- II.  $\Rightarrow q^2 + 2q + 2q + 4 = 0$

$$\Rightarrow q(q + 2) + 2(q + 2) = 0$$

$$\Rightarrow (q + 2)(q + 2) = 0$$

$$\Rightarrow q = -2$$

Obviously,  $p \geq q$

68. (2) I.  $\Rightarrow p^2 + p - 56 = 0$

$$\Rightarrow p^2 + 8p - 7p - 56 = 0$$

$$\Rightarrow p(p + 8) - 7(p + 8) = 0$$

$$\Rightarrow (p + 8)(p - 7) = 0$$

$$\Rightarrow p = 7 \text{ or } -8$$

- II.  $\Rightarrow q^2 - 8q - 9q + 72 = 0$

$$\Rightarrow q(q - 8) - 9(q - 8) = 0$$

$$\Rightarrow (q - 8)(q - 9) = 0$$

$$\Rightarrow q = 8 \text{ or } 9$$

Obviously,  $p < q$

69. (1) We have,  
 $3p + 2q = 58 \dots(i)$

$$4p + 4q = 92$$

$$\Rightarrow 2p + 2q = 46 \dots(ii)$$

By equation (i) - (ii) we get  $p = 12$

From equation (i),  $3 \times 12 + 2q = 58$

$$\Rightarrow 2q = 58 - 36 = 22$$

$$\Rightarrow q = 11$$

Hence,  $p > q$

70. (2) I.  $\Rightarrow 3p^2 + 15p + 2p + 10 = 0$

$$\Rightarrow 3p(p + 5) + 2(p + 5) = 0$$

$$\Rightarrow (p + 5)(3p + 2) = 0$$

$$\Rightarrow p = -5 \text{ or } -\frac{2}{3}$$

$$\text{II. } \Rightarrow 10q^2 + 5q + 4q + 2 = 0$$

$$\Rightarrow 5q(2q + 1) + 2(2q + 1) = 0$$

$$\Rightarrow (2q + 1)(5q + 2) = 0$$

$$\Rightarrow q = -\frac{1}{2} \text{ or } -\frac{2}{5}$$

Obviously,  $p < q$

### ENGLISH LANGUAGE

71. (5) Refer "in all underdeveloped countries ... working population is occupied in agriculture ..."

72. (3) Refer "relief from the pressure of labour ... improvements in technology"

73. (4) Refer the first sentence of the passage.

74. (5) It will raise yield per acre, per man.

75. (3) Refer question 2 and 4.

76. (2) Refer the second sentence of the passage.

77. (4) Refer question 76.

78. (1)                      79. (2)                      80. (1)

**(91-95):**

The proper sequence is ECFADB.

96. (4) Replace 'their' with 'its' as it is used for 'airline', which is singular.

97. (1) Replace 'began' with 'begun' as the 3<sup>rd</sup> form of verb is used in Present Perfect Tense.

98. (3) Replace 'confident' with 'confidence'.

99. (1) Replace 'Inspite' with 'Despite the fact'.

100. (4) Replace 'invested' with 'investing'.

## VOCABULARIES

Words	Meaning in English	Meaning in Hindi
Conceive	in your mind; to imagine something	कल्पना करना
Potent	having great power, influence, or effect	प्रबल, प्रभावयुक्त
Inducing	succeed in persuading or influencing (someone) to do something	प्रेरित करना
derogative	showing a critical or disrespectful attitude	अपमानजनक
Augmenting	to increase the amount, value, size of something	वृद्धि करना
Venture	a risky or daring journey or undertaking	उद्यम करना
Apparent	clearly visible or understood; obvious	स्पष्ट रूप से
Plague	a contagious bacterial disease characterized by fever and delirium	प्लेग
Enormous	very large in size, quantity, or extent	विशाल

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**IBPS PO SPECIAL - I MOCK TEST - 312 (ANSWER KEY)**

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