IBPS PO PRELIMINARY GRAND TEST : IPP-170629 - HINTS AND SOLUTIONS

ANSWER KEY

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

1. The answer can be inferred from the third paragraph of the passage.
2. None of the given statements is true in the context of the passage.
3. 'Breaking social barriers-taking the route of financial indulgence' is the most appropriate title for the passage.
4. Refer to the fifth sentence of the second paragraph.
5. The answer can be easily inferred from the passage.
6. Refer to the second-half of the sixth paragraph.
7. Refer to the first few sentences of the seventh paragraph.
8. The answer is quite clear and obvious.
9. In the context of the passage statement (3) appropriately fills the blank.
10. In the passage thrift means saving money and spending it carefully. Of the given alternatives, prudence means 'wisdom applied to practice; attention to self interest'. So, the words prudence and thrift are synonyms.

11-15. "The proper sequence of the sentences to form a meaningful paragraph will be CAEDFB.

31. (1) $\frac{3.34+5.83+1.69}{3}=3.62$

32. (2) Amount earned by person B in the year 2007 : Person D in the year 2010
$\Rightarrow 27.9 : 9.45 \Rightarrow 31 : 105$

33. (5) $\frac{9.45-8.42}{8.42}\times 100=12.2\cong 12$

34. (4) By observing 'D' earning increased consistently.

35. (3) Total amount earned by A in the year 2006 = 1.44
Total amount earned by C in the year 2010 = 7.84
Total amount earned by both A and C
= 1.44 + 7.84 = 9.28
Total amount earned by E in 2009 = 5.53

$\text{Percentage} = \frac{9.28}{5.53}\times 100=167.8\cong 168$

36. (3) $\frac{\frac{(24+20+15)}{100}\times 8500}{3}=1671.6\cong 1671$

37. (1) Female + Children = 60%
Male = 40%

$\text{No. of males in train A} = \frac{40}{100}\times\frac{9}{100}\times 8500=306$

38. (5) $\frac{19}{(13+9)}\times 100=\frac{19}{22}\times 100=86\%$

39. (4) By observing train S is the highest no. of passengers.
Train M is the second highest no. of passengers.

40. (3) No. of mobile phone sold by company B in July **:**
No. of mobile phone sold by company B in December

$\Rightarrow \frac{7}{15}\times\frac{17}{100}\times 45000 : \frac{9}{16}\times\frac{16}{100}\times 45000$
$\Rightarrow 7\times 17\times 16 : 9\times 16\times 15$
$\Rightarrow 119 : 135$

41. (3) $\text{Without discount} = \frac{65}{100}\times\frac{7}{15}\times\frac{12}{100}\times 45000=1638$

42. (4) No. of mobile phones sold by B in October

$=\frac{5}{12}\times\frac{8}{100}\times 45000=1500$

$\therefore$ Total Profit = 433 × 1500 = ₹ 649500

43. (5) No. of mobile phones sold by Company A in July

$=\frac{8}{15}\times\frac{17}{100}\times 4500$

No. of mobile phones sold by Company A in December

$=\frac{7}{16}\times\frac{16}{100}\times 4500$

$\therefore \% = \frac{8\times 17\times 16}{7\times 15\times 16}\times 100=129.5\cong 130$

44. $? = (56)^2 \times 2.5385 = 3136 \times 2.5385 = 7960.736 \approx 7960$

45. $? = \left(\frac{755}{100} \times 523\right) \div 777 = \frac{394865}{77700} = 5$

46. $? = 783.559 + 49.0937 \times 31.679 - 58.591$
$= 2338.798 - 58.591 \approx 2280$

47. $? = (4438 - 2874 - 559) \div (269 - 106 - 83) = 1005 \div 80$
$= \frac{1005}{80} = 12.56 \approx 13$

48. (2) $1414.4 = P\left[\left(1+\frac{8}{100}\right)^2 - 1\right]$ P = Principal

$\Rightarrow 1414.4 = P\left[\frac{729-625}{625}\right]$

$\Rightarrow 1414.4 = P\left[\frac{104}{625}\right]$

$\Rightarrow P = 8500$

Total amount earned = 8500 + 1414.4 = 9914.4

49. (4) L.C.M. of 12, 18, 20 is 180.
180 sec. i.e. 3 min will the three meet again at the straight point.

50. (1) 2 men work $= \frac{2}{4\times 2} = \frac{1}{4}$

4 women work $= \frac{4}{4\times 4} = \frac{1}{4}$

10 children $= \frac{10}{5\times 4} = \frac{1}{2}$

Total work completed in

$= \frac{1}{4} + \frac{1}{4} + \frac{1}{2} = \frac{1+1+2}{4} = 1$ day

51. (5) Speed of boat still in water

$= \frac{1}{2}[32+28] = 60 \times \frac{1}{2} = 30$ km/h

52. Suppose the breadth of the plot is x m and length is 3x m.
Area of the rectangular plot = 7803
$\Rightarrow 3x \times x = 7803 \therefore 3x^2 = 7803$

$\therefore x = \sqrt{\frac{7803}{3}} = \sqrt{2601} = 51$ m

53. Cannot be determined.

54. From I,
$x^2 + 12x + 32 = 0$
$\Rightarrow x^2 + 4x + 8x + 32 = 0$
$\Rightarrow (x + 4)(x + 8) = 0$
$\Rightarrow x = -4$ or -8
From II,
$y^2 + 17y + 72 = 0$
$\Rightarrow y^2 + 8y + 9y + 72 = 0$
$\Rightarrow (y + 8)(y + 9) = 0$
$\Rightarrow y = -8$ or -9
So, $x \geq y$

55. From I,
$x^2 + 13x + 42 = 0$
$\Rightarrow x^2 + 6x + 7x + 42 = 0$
$\Rightarrow (x + 6)(x + 7) = 0$
$\Rightarrow x = -6$ or -7
From II,
$y^2 + 19y + 90 = 0$
$\Rightarrow y^2 + 9y + 10y + 90 = 0$
$\Rightarrow (y + 9)(y + 10) = 0$
$\Rightarrow y = -9$ or -10
So, $x > y$

56. From I,
$x^2 - 15x + 56 = 0$
$\Rightarrow x^2 - 7x - 8x + 56 = 0$
$\Rightarrow (x - 7)(x - 8) = 0$
$\Rightarrow x = 7$ or 8
From II,
$y^2 - 23y + 132 = 0$
$\Rightarrow y^2 - 11y - 12y + 132 = 0$
$\Rightarrow (y - 11)(y - 12) = 0$
$\Rightarrow y = 11$ or 12
So, $x < y$

57. From I,
$x^2 + 7x + 12 = 0$
$\Rightarrow x^2 + 3x + 4x + 12 = 0$
$\Rightarrow (x + 3)(x + 4) = 0$
$\Rightarrow x = -3$ or -4
From II,
$y^2 - 6y + 8 = 0$
$\Rightarrow y^2 + 2y + 4y + 8 = 0$
$\Rightarrow (y + 2)(y + 4) = 0$
$\Rightarrow y = -2$ or -4
So, $x \leq y$

58. (2) 7 20 46 98 202 **410**
×2 +6 ×2 +6 ×2 +6 ×2 +6 ×2 +6
$\Rightarrow 202 \times (2 + 6) = 410$

59. (2) 210 209 213 186 202 **77**
-1^3 $+2^2$ -3^3 $+4^2$ -5^3
$\Rightarrow 202 - 125 = 77$

60. (3) 27 38 71 126 203 **302**
+11 +33 +55 +77 +99
$\Rightarrow 203 + 99 = 302$

61. (3) 435 354 282 219 165 **120**
$-(9\times 9)$ $-(9\times 8)$ $-(9\times 7)$ $-(9\times 6)$ $-(9\times 5)$
$\Rightarrow 165 - (9 \times 5) = 120$

62. (5) 1111.1 + 111.11 + 11.111 = 1233.321

63. (4) $12.4 \times x \times 16.5 = 2905.32$
$\Rightarrow 204.6 \times x = 2905.32$
$\Rightarrow x = 14.2$

64. (3) $(?)^3 = 4913 \Rightarrow ? = 17$.

65. (2) $8080 \times \frac{1}{80} \times \frac{1}{8} = \frac{101}{8} = 12.625$

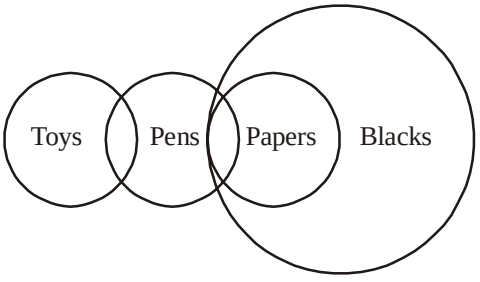
66-70.

	Department	Sport
A	Personnel	Table Tennis
B	Administration	Football
C	Administration	Hockey
D	Administration	Basketball
E	Marketing	Cricket
F	Personnel	Volleyball
G	Marketing	Lawn Tennis
H	Marketing	Badminton

71-75. On the basis of given information, we can summarize the data in the form of table as given below.

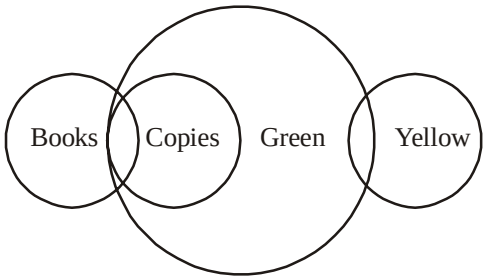
Day	Topic
Monday	A
Tuesday	E
Wednesday	B
Thursday	C
Friday	-
Saturday	D

71. Topic C will be discussed on Thursday.
72. There is no gap between the days on which Topics E and B will be discussed.
73. Discussion on Topic C will be immediately preceded by discussion on Topic B.
74. With reference to A, the discussion on Topic E will take place immediately next day.
75. Combination of day Wednesday and Topic B is definitely correct.
76. (1) According to the statements, venn diagram is as follow.



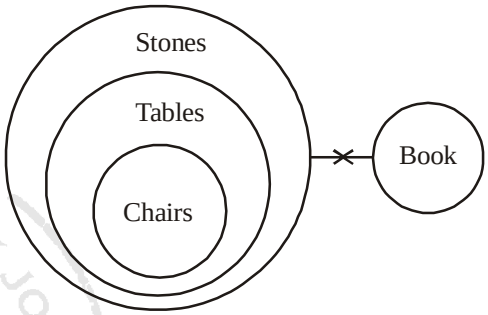
Conclusions : I. ✓ II. × III. × IV. ✓
So, I and IV follow.

77. (1) According to the statements, venn diagram is as follow.



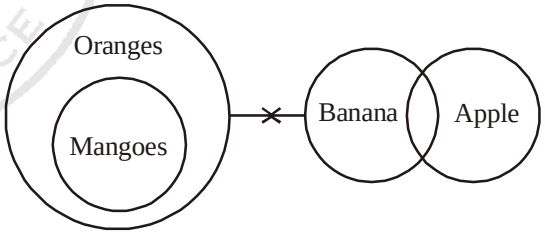
Conclusions : I. × II. ✓ III. ✓ IV. ✓

78. (1) According to the statements, venn diagram is as follow.



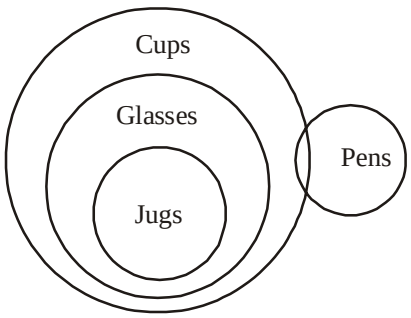
Conclusions : I. ✓ II. ✓ III. ✓ IV. ✓
So, All follow.

79. (1) According to the statements, venn diagram is as follow.



Conclusions : I. × II. × III. ✓ IV. ×
So, Only III follows.

80. (1) According to the statements, venn diagram is as follow.



Conclusions : I. ✓ II. × III. ✓ IV. ×
So, I and III follow.

81. As

$L \xrightarrow{+3} E$ and $S \xrightarrow{+3} M \xrightarrow{-2} D$

$U \xrightarrow{+5} O$ $V \xrightarrow{+5} H \xrightarrow{+2} F$

Similarly,

$N \xrightarrow{+3} \mathbf{G}$

$I \xrightarrow{+5} \mathbf{V}$

82. $G \xrightarrow{-2} I \xrightarrow{-2} E \xrightarrow{-2} \mathbf{U} \xrightarrow{-2} D$

$K \xrightarrow{+2} V \xrightarrow{+2} M \xrightarrow{+2} \mathbf{B} \xrightarrow{+2} F$

83. As, and

$G \xrightarrow{+2} S$ $B \xrightarrow{+2} F$

$L \xrightarrow{+2} A$ $U \xrightarrow{+2} E$

$A \xrightarrow{+2} N$ $M \xrightarrow{+2} B$

$D \xrightarrow{+2} U$ $P \xrightarrow{+2} H$

Similarly,

$S \xrightarrow{+2} \mathbf{R}$

$K \xrightarrow{+2} \mathbf{V}$

$I \xrightarrow{+2} \mathbf{G}$

$D \xrightarrow{+2} \mathbf{U}$

84-88. $P \$ Q \Rightarrow P \geq Q$
$P @ Q \Rightarrow P > Q$
$P \# Q \Rightarrow P < Q$
$P \delta Q \Rightarrow P = Q$
$P * Q \Rightarrow P \leq Q$

84. **Statements** $N = B, B \leq W, W < H, H \leq M$
So, $N = B \geq W < H \leq M$
Conclusions
I. $M > W$ (True)
II. $H > N$ (False)
III. $W = N$ **or**
IV. $W < N$
So, Either III or IV and I are true.

85. **Statements** $R \leq D, D \leq J, J < M, M > K$
So, $R \leq D \leq J < M > K$
Conclusions
I. $K < J$ (False)
II. $D > M$ (False)
III. $R < M$ (False)
IV. $D > K$ (False)
So, none is true.

86. **Statements** $H > T, T < F, F = E, E \leq V$
So, $H > T < F = E \leq V$
Conclusions
I. $V > F$ (True)
II. $E > T$ (True)
III. $H > V$ (False)
IV. $T < V$ (True)
So, I, II and IV are true.

87. **Statements** $D < R, R \leq K, K > F, F \leq J$
So, $D < R \leq K > F \leq J$
Conclusions
I. $J < R$ (False)
II. $J < K$ (True)
III. $R < F$ (False)
IV. $K > D$ (True)
So, II and IV are true.

88. **Statements** $M \leq K, K > N, N \leq R, R < W$
So, $M \leq K > N \leq R < \mathbf{W}$
Conclusions
I. $W > K$ (False)
II. $M > R$ (False)
III. $K > W$ (False)
IV. $M > N$ (True)
So, only IV is true.

89-90. $P \times Q \rightarrow P(\text{Mother}) \leftrightarrow Q$
$P + Q \rightarrow P(\text{sis}) \leftrightarrow Q$
$P \div Q \rightarrow P(\text{father}) \leftrightarrow Q$
$P - Q \rightarrow P(\text{brother}) \leftrightarrow Q$

89. (4) $R + T \div M + K \rightarrow R(\text{sis}) \leftrightarrow T(\text{father})$
$\updownarrow$
$M(\text{sis}) \leftrightarrow K$

$\therefore$ M niece of 'R'.

93. (3) 3&L9©L
There are two symbols which are immediately followed by consonant and immediately preceeded by a number.

99. (5) Third highest number = 647
Middle digit of third highest number is 4.

100. (4) T We cannot decide R's position.
Q
P
S