

IBPS PO Preliminary Grand Test –IPP-181041

HINTS & SOLUTIONS

ANSWER KEY

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

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- 1.(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. Also, the phrasal verb "come down" means collapse or be demolished. Hence (b) is the correct option.
- 2.(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. Hence among the given options, only option (1) has the correct grammar structure to correctly fit into the sentence.
- 3.(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 options, options (1), (2) and (4) are not in accordance with correct grammar structure. Only option (3) possesses

correct syntax to supplement its usage in the sentence. The phrasal verb "grew up" means became an adult.

4.(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.

5.(4) "apart from various goodies being dangled" is the correct phrase to make the sentence grammatically correct. Options (b) and (c) can be easily eliminated as they lack the correct syntaxes and similarly option (a) as the sentence is not conditional. Option (d) fits into the sentence quite correctly as it adds meaning to the sentence. The phrasal verb "apart from" means in addition to; as well as. Hence (d) is the correct option.

6. (4)

7. (3)

8. (2)

9. (2)

10. (4)

11. (2)

12. (5)

13. (2)

14. (1)

15. (2)

16. (2)

17. (4)

18. (5)

19. (1)

20. (3)

21.(3) "the largest audience country" is the correct phrase in context of the paragraph.

22.(2) "rankings" is the correct word replacement as it means having a specified rank in a hierarchy.

23.(1) "announced" is the correct word replacement as it means make a formal public statement about a fact, occurrence, or intention.

24.(5) "impressive" is the correct word in context of its usage in the paragraph. Hence (e) is the correct option.

25.(4) "active" is the correct word replacement as it means participating or engaged in a particular sphere or activity.

26.(2) "will take a seat on the powerful, from the process" is the correct set of phrases to make the sentence grammatically correct.

27.(5) The given sentence is grammatically correct. **Standoff** means a deadlock between two equally matched opponents in a dispute or conflict.

28.(3) "has now gained, connectivity initiative" is the correct set of phrases to make the sentence grammatically correct. It is to be noted that the sentence is in Present Tense and in Passive form.

29.(4) "Providing gainful, for enabling people to improve" is the correct set of phrases to make the sentence grammatically correct.

30.(5) The sentence is grammatically correct. Since the sentence talks about the Past event, "**when it was only**" is the correct phrase to comply the sentence structure.

$$\begin{array}{r}
 4x + 3y = 40 \dots (i) \times 6 \\
 6x - 5y = 22 \dots (ii) \times 4 \\
 \hline
 24x + 18y = 240 \\
 - 24x - 20y = - 88 \\
 \hline
 38y = 152 \\
 \therefore y = \frac{152}{38} = 4
 \end{array}$$

$$\therefore y = \frac{152}{38} = 4$$

Putting the value of y in equation (i), we have

$$4x + 3 \times 4 = 40$$

$$\text{or, } 4x = 28$$

$$\therefore x = 7$$

Hence, $x > y$

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- 32.(2) $2x^2 - 4x - \sqrt{13}x + 2\sqrt{13} = 0 \dots (i)$
 or, $2x(x - 2) - \sqrt{13}(x - 2) = 0$
 or, $(x - 2)(2x - \sqrt{13}) = 0$
 $\therefore x = 2, \frac{\sqrt{13}}{2}$
 $10y^2 - 18y - 5\sqrt{13}y + 9\sqrt{13} = 0 \dots (ii)$
 or, $2y(5y - 9) - \sqrt{13}(5y - 9) = 0$
 or, $(2y - \sqrt{13})(5y - 9) = 0$
 $\therefore y = \frac{9\sqrt{13}}{5}, \frac{2}{5}$
 Hence, $x \geq y$
- 33.(5) $6x^2 + 17 - 3x^2 - 20 = 0 \dots (i)$
 or, $3x^2 = 3$
 $\therefore x \pm 1$
 $5y^2 - 12 - 9y^2 + 16 = 0 \dots (ii)$
 or, $4y^2 = 4$
 $\therefore y = \pm 1$
 Hence $x = y$
- 34.(2) $13x + 17 = 134 \dots (i)$
 $\therefore x = \frac{117}{13} = 9$
 $(361)^{\frac{1}{2}}y^2 - 270 = 1269$
 or, $19y^2 = 1629 + 270 = 1539$
 $y^2 = \frac{1539}{19} = 81$
 $\therefore y \pm 9$
 Hence, $x \geq y$
- 35.(4) $64x^2 = 256 \dots (i)$
 or, $x^2 = 4$
 $\therefore x = \pm 2$
 $14y^3 - 12y^3 = 16 \dots (ii)$
 or, $2y^3 = 16$
 $\therefore y^3 = 8$
 $\therefore y = 2$
 Hence $x \leq y$
- 36.(2) $12 \times 24 = 8 \times 3 \Rightarrow ? = 36$
- 37.(4) $25\% \Rightarrow 11250$
 $100\% \Rightarrow ?$
 $\Rightarrow 4 \times 11250 = 45000$
- 38.(5) $93 - 39 = 54$
 Sum of two digits = $9 + 3 = 12$
 Original number = 93
- 39.(1) Meena : Meena's daughter
 $M = 8 M's \Rightarrow 8 : 1$
 $\frac{8x + 8}{x + 8} = \frac{10}{3} \Rightarrow 24x + 24 = 10x + 80$
 $\Rightarrow 14x = 56 \Rightarrow x = 4$
 Meena's present age = $8 \times 4 = 32$
- 40.(3) $2! \times 3! \times 4! = 288$
- 41.(1) Profit of Company P in 2007 = 2.1 lakh
 $P = I - E = 2.1$
 P (percentage) = 7
 $P = \frac{I - E}{E} \times 100$
 $\Rightarrow E = \frac{2.1}{7} \times 100 = 30$ lakh
- 42.(2) % profit of Company Q in the year 2005 = 10
 Average % earned by remaining companies in the year 2005 = $\frac{9 + 5 + 8 + 12 + 6}{5} = 8$
 Difference = $10 - 8 = 2$
- 43.(4) Profit = 18.9
 %P in 2008 in R = 9%
 $\therefore 9 = \frac{I - E}{E} \times 100 \Rightarrow 9 = \frac{18.9}{E} \times 100$
 $\Rightarrow E = 210$
 $I = 18.9 + 210 = 228.9$ lakh
- 44.(5) T in 2009 = 14
 T in 2004 = 10
 % increase = $\frac{14 - 10}{10} \times 100 = \frac{4}{10} \times 100 = 40$
- 45.(3) Average profit percent
 $= \frac{7 + 8 + 13 + 14 + 15 + 15}{6} = \frac{72}{6} = 12$
- 46.(1) Since, there are bats of six companies & balls of five companies,
 Hence, possible no. of pairs = $6 \times 5 = 30$
 No. of favourable pairs = 5
 Req. probability = $\frac{5}{30} = \frac{1}{6}$
- 47.(2) Possible ways are :

MRF	BDM	SS
1	4	1

 Hence no. of ways = $20C_2 \times 6C_4 = 2850$
- 48.(3) Possible ways :
 (i) First two Gun & Moore, last one diff.
 (ii) First & third G & M, second one diff.
 (iii) First diff., Last two G & M
 Req. probability = $3 \times \frac{10 \times 9 \times 90}{100 \times 99 \times 98} = \frac{27}{1078}$
 Since out of $8 + 10 = 18$ balls, $4 + 6 = 10$ are defective.
 Hence, req. probability = $\frac{{}^{10}C_3}{{}^{18}C_3} = \frac{120}{816} = \frac{5}{34}$
- 49.(2) No. of ways of choosing 3 balls of Kookabura 4
 3 bats of SS = ${}^{12}C_3 \times {}^{18}C_3$
 No. of ways of arranging them = $2 \times 3! \times 3! = 72$
 Therefore, req. answer = $72 \times {}^{12}C_3 \times {}^{18}C_3$
- 50.(2) The Series is: $+6 \times 1, +5 \times 2, +4 \times 3, +3 \times 4, +2 \times 5$
- 51.(2) The Series is: $\times 0.5, \times 1, \times 1.5, \times 2, \times 2.5$
- 52.(3) The Series is: $\times 3 + 1, \times 3 + 2, \times 3 + 3, \times 3 + 4, \times 3 + 5$
- 53.(1) The Series is: $-160, -80, -40, -20, -10$
- 54.(2) The Series is: $\times 7 + 1, \times 6 + 2, \times 5 + 3, \times 4 + 4, \times 3 + 5$
- 55.(3) Price after discount = $600 \times \frac{90}{100} \times \frac{95}{100} = 513$
- 56.(4) Customer have to pay = $513 + 513 \times \frac{5}{100}$
 $513 + 25.65 = \text{Rs } 538.65$
 $P \times 13\% \times 8 \text{ years} = 6500$
 $\Rightarrow P \times 104\% = 6500$
 $\Rightarrow P = \text{Rs } 6250$
 $C.I = 6250 \left(1 + \frac{8}{100}\right)^2 - 6250$
 $C.I = 6250 \times \frac{108}{100} \times \frac{108}{100} - 6250$
 $C.I = 7290 - 6250$
 $C.I = 1040$
- 57.(1) Let, Joe's present age = $2x$
 \Rightarrow Father's present age = $7x$
 Now,
 $\frac{2x + 3}{7x} = \frac{5}{14}$
 $\Rightarrow x = 6$
 \Rightarrow Joe's present age = $2x = 12$ years

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59.(3)

Officers 6800	Non-officers 2000
3200	
$\frac{1200}{1}$	$\frac{3600}{3}$

No. of non-officers = $\frac{3}{1} \times 5 = 15$

60.(2)

(4 days) $(2M + 7B)$ \swarrow +3 unit/day
 \searrow 12 unit
 (3 days) $(4M + 4B)$ \swarrow +4 unit/day
 \searrow 2M + 7B = 3
 \searrow 4M + 4B = 4
 After solving, 5M = 4
 $\Rightarrow M = 4/5$
 \Rightarrow Required time = $\frac{12}{4/5} = 15$ days

61. (1) 67.77% of 9531.55 – 43.33% of 5436.30
 68% of 9532 – 43% of 5436
 6481.76 – 2337.48 = 4144.25
 $\approx 220\%$ of 1883.76

62. (1) $\sqrt{8650} + \sqrt[3]{50650} = \sqrt{(?)} = 93 + 37 = 130$ approx.
 $\therefore ? = (130)^2 = 16900$

63. (3) 41.60% of 9567.88 \div 67% of 222.1426 = $(?)^3$
 = 42% of 9568 \div 67% of 222
 $\approx 4018 \div 148 \approx 27$
 or, $?^3 = 3^3 \therefore ? = 3$

64. (2) $?^3 = \frac{38}{1860}$ of $\frac{77}{495}$ of 8505 $\approx \frac{1}{49} \times \frac{77}{495}$ of 8505
 $\frac{1}{7 \times 45}$ of 8505 = $\frac{8505}{45 \times 7} = 27$
 $\therefore ? = 3$

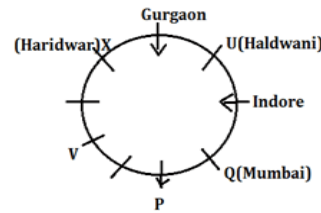
65. (3) $?^2 = \sqrt{5930} + \sqrt{8465} = 77 + 92 = 169$
 $\therefore ? = \sqrt{13 \times 13} = 13$

- 66.(2) I. D > E (False) II. K < E (True)
 67.(3) I. R = P (False) II. R > P (False)
 68.(4) I. L > Z (False) II. Z > Q (False)
 69.(4) I. Q # R (False) II. Q \$ R (False)
 70.(3) I. T # Q (False) II. Q * T (False)

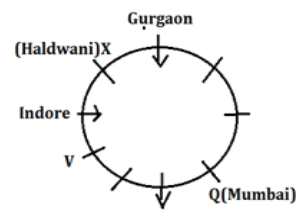
71-75. From the given condition, the one who goes Gurgaon faces towards centre and P faces opposite direction of the one who goes Gurgaon, it means P faces outside the centre. The one, who goes Indore faces to the centre and sits 2nd place away from P, hence the one who goes Indore sits either 2nd left or 2nd right of P.

From the conditions, X and U go to the city which starting letter is H (So X and U go Haridwar and Haldwani). V sits 60° clockwise with respect to P. The one who goes Haldwani and the one who goes Indore are immediate neighbours and V is not from Haldwani. The one who goes Gurgaon is immediate neighbor of the one who goes Haldwani. Hence we will get 2 possible cases- case 1 and case 2, which are shown below. X sits 2nd place away from V. In case- 1, U goes to Haldwani and X goes to Haridwar but in case -2, X goes Haldwani and U goes to Haridwar. Q goes Mumbai and sits 180° to the X.

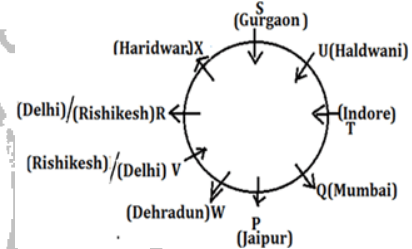
Case- 1



Case-2

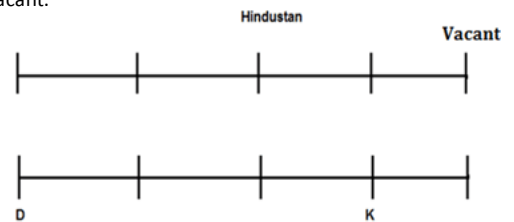


There is an angle of 135° between X and the one who goes Indore, from this condition Case-2 will be cancelled out. With the rest conditions, the one, who goes Dehradun, is 3rd to the left of the one, who goes Haridwar, It is clear that X will face outside to the centre. R is not an immediate neighbor of P and the one, who goes Haldwani, so only 1 place is remaining for R, R's position will be fixed. The persons, who go Delhi and Rishikesh are immediate neighbours. Both the immediate neighbours of P, face same direction of P. R faces outside to the centre, from this condition we will have five persons who face outside, it means rests will face inside the centre because it is given that only 4 persons face to the centre. W faces outside the centre, now there is only one possibility for W that W will go to Dehradun. T doesn't go Gurgaon, hence T will go Indore. P goes Jaipur it will be fixed. We will get final answer.



- 71.(4) 72.(2) 73.(4) 74.(3) 75.(3)
 76.(2) 77.(5) 78.(2) 79.(4) 80.(1)
 81-85.

In this seating arrangement, We should remember one thing that one seat is vacant in each row, now we place all the given variables at two parallel rows such that The one, who sits in the middle of the row 1, reads Hindustan. The one who faces the immediate neighbor of the one who reads Hindustan is K. K sits at that position (Seat) which is immediate right of the one who faces the one who reads Hindustan. There are two seats between K and D, who reads Dainik Jagran. The seat which is diagonally opposite to D is Vacant.

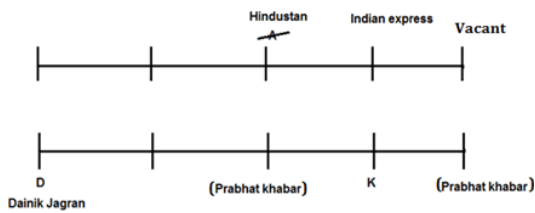


Dainik Jagran

Now, the immediate neighbor of K, reads Prabhat Khabar. The one who reads Indian express faces the seat which is adjacent to the one, who reads Prabhat Khabar. A sits immediate right of the one who reads Indian express. A and R do not seat at the middle of row. From these conditions, there are two cases-

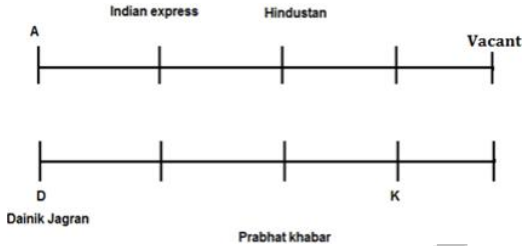
Case 1

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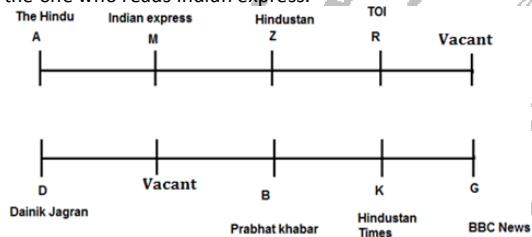


In this arrangement, we can see that A can't be sit at the middle of the row, so Case 1 will be eliminated and Case 2 will continued.

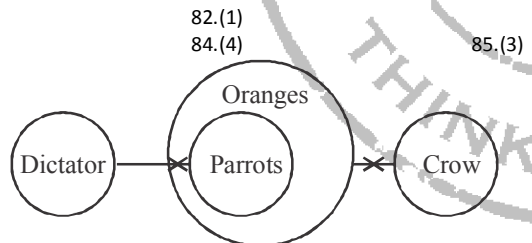
Case 2



In this arrangement, the one who reads Hindustan Times sits immediate left of the one who reads BBC News. We can see that there is a vacant seat in row 2, is between D and the one who reads Prabhat Khabar. M sits 2nd right from the one who reads TOI. G does not sit at the middle. A and R do not seat at the middle of row. The one who reads The Hindu sits at extreme end and he is immediate neighbor of the one who reads Indian express.



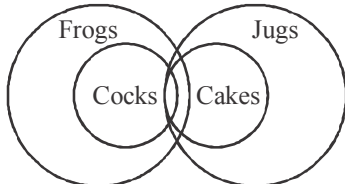
- 81.(2)
- 83.(2)
- 86. (4)



Conclusions : I. ✓ II. ✓ III. ✓
(or)
IV. ✓

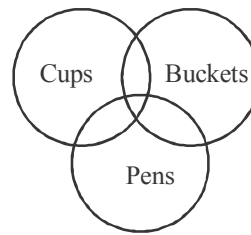
∴ Either I or IV and II, III follows.

- 87. (5)



Conclusions : I. ✓ II. ✓ III. ✓ IV. ✓
∴ All follow.

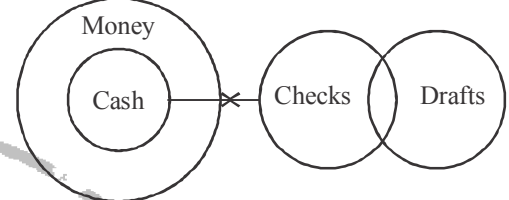
- 88. (4)



Conclusions : I. ✓ II. ✗ III. ✓
(or)
IV. ✓

∴ I and Either III or IV follows.

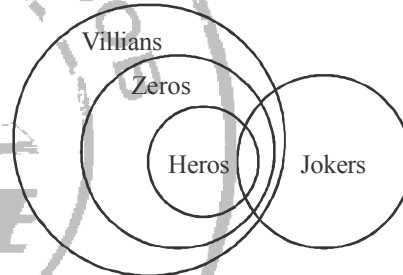
- 89. (4)



Conclusions : I. ✓ II. ✓
(or)
IV. ✓ III. ✓

∴ Either I or IV and either II or III follows.

- 90. (1)



Conclusions : I. ✓ II. ✗ III. ✗ IV. ✗
∴ Only I follows.

- 91-95.

Step1: From the given definite conditions: - U watches a movie on Thursday. Only one person watches movie between U and the one who watches AVENGERS. P watches movie immediately after the one who watches AVENGERS. Only three people watch movie between P and the one who watches Mechanic. So from the given statements there will be two cases where P and the one who watches Avengers can sit.

Case 1:-

Days	Person	Movies
Monday		
Tuesday		Avengers
Wednesday	P	
Thursday	U	
Friday		
Saturday		
Sunday		Mechanic

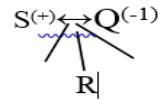
Case 2:-

Days	Person	Movies
Monday		
Tuesday		
Wednesday		Mechanic
Thursday	U	
Friday		
Saturday		Avengers
Sunday	P	

Step 2:- Only two people watch movie between the one who watches Mechanic and W, but in the case 1st it is not possible as U is already there on the place. So the case 1 is eliminated. Now the one who watches X-Men Classic watches movie before W but after Thursday. So X-men Classic is placed on Friday. The one who watches Thor 3 watches movie immediately before the one who watches Baywatch, so there is one place for the one who watches Thor 3 is on Monday and Baywatch is on Tuesday. The one who watches Baby watches movie immediately before Q. V does not watch movie on Tuesday. So Q watches movie on Friday and V watches movie on Wednesday. P watches wonder woman, hence we get our final answer.

Days	Person	Movies
Monday	R	Thor 3
Tuesday	T	Baywatch
Wednesday	V	Mechanic
Thursday	U	Baby
Friday	Q	X-Men Classic
Saturday	W	Avengers
Sunday	P	Wonder woman

98.(5) From Statement I and II



Thorough, the sex of M is not known, it is given in second statement that S has three children and only one of them is a boy therefore we conclude that Q has two daughters.

99. (4) Even by combining all the statements we can't find the day of the week on which Surjit's mother visited Surjit's house.

100. (2) From I. $T > Q > P$
 From II $\geq \geq \geq R \geq \geq$
 From III $\geq \geq \geq \geq S > U$
 Now, combining all the statements we have
 $T > Q > P > R > S > U$
 Thus, T is the tallest.

91.(1)

92.(3)

93.(4)

94.(4)

95.(4)

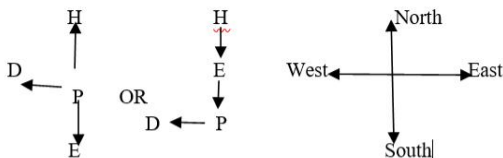
96. (1) From I, munsaraza → deep dark horse ... (i)
 sag a ma → horse is black (ii)

From (i) and (ii) we have, horse → sa
 From III. Mun pa lo → run dark night (iii)
 zo ga pi → white black hot (iv)

Now combining (i) and (iii) we have, mun → dark
 Thus, I and III together are sufficient by II is not required.

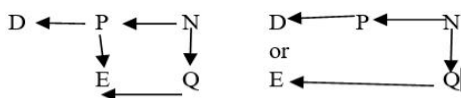
97. (1)

From I



From II. Directions are not given in statement.

From III



From I and III we have point E is to the south of point P.