

## SBI PO Preliminary Grand Test –SPP-170465

### HINTS & SOLUTIONS

- 1.(3) Refer to 2nd paragraph, "Oil tycoons in Russia have made huge fortunes by using gaping holes in tax legislation to pay far below the standard 24 percent corporate rate."
- 2.(2) Refer to 2nd paragraph "While the Soviet Government bought grain and other foreign and other foreign consumer goods to be sold in domestic markets at heavily subsidized rates, Russia rejected socialism." & 3rd paragraph, "But the gap between the rich and the poor continues to widen with 19 million people still below the poverty line."
- 3.(4) Refer to 1st paragraph , 1st & 2nd sentence, "As India and other energy importing countries struggle with runaway oil prices, Russia earned more than \$ 300 billion in oil export earnings. This has driven its economic growth. Today, Russia is the eighth largest economy in the world in purchasing Power Parity."
- 4.(3) Mentioned in paragraph 2, "the Soviet Government bought grain and other foreign and other foreign consumer goods to be sold in domestic markets at heavily subsidized rates, Russia rejected socialism."
- 5.(2) Refer to the last paragraph. "Russia is slowly moving form a resources dependent to a science based economy. The government has raised funding for infrastructure (outmoded transport networks put a brake on the economy), aviation and nuclear energy among other sectors."
- 6.(4) None of the options implies Russia's oil course.
- 7.(4) Refer to the last paragraph, "Driven by high global energy and food prices, the Russian central bank has been forced to rise the interest rate four times this year in order to keep inflation down."
- 8.(3) Refer to the 3rd paragraph, "Russia has also overtaken Germany as Europe's biggest car market demand has outpaced supply and with Russians having to wait a year to get the car of their choice."
- 9.(1) Refer to the last paragraph. "Russia is slowly moving form a resources dependent to a science based economy. The government has raised funding for infrastructure (outmoded transport networks put a brake on the economy), aviation and nuclear energy among other sectors."
- 10.(4) None of the options is mentioned in the passage.
- 11.(4) 'viable' is followed by 'for' not with 'of'  
e.g. The new scheme has made this viable for the poor customers.
- 12.(1) Use 'such' in place of 'much'
- 13.(5) No error.
- 14.(3) 'A lack of' is the correct phrasal expression to be used here.  
e.g. A lack of stamina is fatal for a sports personality.
- 15.(3) Use 'was' in place of 'were' as the subject is 'every one' which is third person singular.
- 16.(1) Use 'for' in place of 'from' because in present perfect continuous tense we use 'for' for representing 'period of time'
- 17.(3) 'Want' is a stative verb and it should not be used in the progressive form.  
e.g. They want me to do this task soon.
- 18.(2) Use 'has' in place of 'have' because the subject is singular in number.  
e.g. The community has its own rituals.
- 19.(4) 'a' will not be used before 'scientist' as when the two nouns describing a same person are joined by and , as well as etc, then article is used only before the first noun.
- 20.(2) Use of article 'a' is not required here. Remove it to make the syntax correct.  
e.g. The change in the policy has brought much better effect.
- 21.(2) 22.(1)
- 23.(4) 24.(4)
- 25.(3) 26.(2)
- 27.(1) 28.(4)
- 29.(1) 30.(3)
- 31.(1) 
$$\frac{234 \times 66 \times 16}{\frac{4}{7}} = \frac{x \times 26 \times 180}{\frac{3}{7}}$$
  
 $\Rightarrow x = 396$   
 $\therefore \text{Extra men to be employed} = 396 - 234 = 162$
- 32.(2) 
$$\frac{2D}{7.5 + x} = \frac{D}{7.5 - x}$$
  
 or,  $15 - 2x = 7.5 + x$   
 or,  $x = 2.5 \text{ km/hr}$
- 33.(4) 

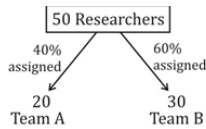
Class	I	II
Passenger	x	50x
Fare	3y	y
Total fare	$x \times 3y + 50x \times y = 53xy$	1325

  
 $\Rightarrow xy = 25$   
 Therefore amount collected from Class II passengers =  $50xy = \text{Rs. } 1250$
- 34.(2) Let there are 100 students  
 5 answered all questions  
 5 answered none  
 $\frac{1}{4} \times 90$  answered 1 question  
 $\frac{1}{5} \times 90$  answered 4 questions  
 $\frac{49}{2}$  answered 2 questions  
 $\therefore$  Rest i.e.  $(100 - 75 = 25)$  answered 3 questions  
 $\therefore 25 \text{ unit} = 200$   
 $\therefore 100 \text{ unit} = \frac{200}{25} \times 100 = 800$
- 35.(2) 

CP	SP	
100	85	} Difference = 30
100	115	
30	450	

  
 $\therefore 100 \rightarrow \text{Rs } 1500$   
 Cost price of the article = Rs 1500

36.(1)



Total preference for Team A =  $\frac{50 \times 70}{100} = 35$

Total preference for Team B =  $50 \times \frac{30}{100} = 15$

No. of researchers who preferred for Team A but not assigned A =  $35 - 20 = 15$

No. of researchers who preferred for Team B = 15 which is less than the no of actual Researchers assigned to B. Hence, all of them will be fit in Team B.

Hence, the least number of researchers who will not get the desired team = 15

37.(3)

Since base area is decreased to one-ninth it means radius is decreased to one-third.

$\therefore$  LSA is increased by  $\frac{2\pi \times \frac{r}{3} \times 6h}{2\pi rh} = 2$  times

38.(3)

$\frac{125}{100} \times \frac{96}{100} \times \frac{125}{100} \times \frac{96}{100} \times \frac{125}{100} \times x = 72000$

$\therefore x = \text{Rs. } 40,000$

39.(3)

$\frac{(100 + K) \times 1}{0.88} - 100 = 25$

$\Rightarrow 100 + K - 88 = 22$

$\Rightarrow K = 10\%$

40.(3)

LCM of 6, 8, 10, 12 = 120

When equal no. of trees planted in rows of 6, 8, 10 or 12, five trees still left.

Hence No. of trees will be  $(120x+5)$  which must be divided by 13 as per given condition

By hit and trial,

$\frac{(120x+5)}{13}$  will satisfy for  $x = 7$

$\therefore$  Total no. of trees =  $120 \times 7 + 5 = 845$

41.(4)

I.  $x^2 = 4$

$\Rightarrow x^2 - 4 = 0$

$\Rightarrow (x - 2)(x + 2) = 0$

$\Rightarrow x = 2, -2$

II.  $y^2 + 4y = -4$

$\Rightarrow y^2 + 4y + 4 = 0$

$\Rightarrow y^2 + 2y + 2y + 4 = 0$

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

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

$\Rightarrow y = -2$

$\therefore x \geq y$

42.(2)

I.  $3x + 2y = 58$

II.  $4x + 4y = 92$

On  $eq^n(i) \times 2 - eq^n(ii)$

$x = 12, y = 11$

$\therefore x > y$

43.(3)

I.  $4x^2 - 5x + 3 = 0$

$\Rightarrow 4x^2 - 6x - 2x + 3 = 0$

$\Rightarrow 2x(2x - 3) - 1(2x - 3) = 0$

$\Rightarrow (2x - 1)(2x - 3) = 0$

$\Rightarrow x = \frac{1}{2}, \frac{3}{2}$

II.  $2y^2 - 7y + 6 = 0$

$\Rightarrow 2y^2 - 4y - 3y + 6 = 0$

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

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

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

$\therefore x \leq y$

44.(4)

I.  $18x^2 + 18x + 4 = 0$

$\Rightarrow 18x^2 + 12x + 6x + 4 = 0$

$\Rightarrow 6x(3x + 2) + 2(3x + 2) = 0$

$\Rightarrow (6x + 2)(3x + 2) = 0$

$\Rightarrow x = -\frac{2}{6}, -\frac{2}{3}$

II.  $12y^2 + 29y + 14 = 0$

$\Rightarrow 12y^2 + 8y + 21y + 14 = 0$

$\Rightarrow 4y(3y + 2) + 7(3y + 2) = 0$

$\Rightarrow (4y + 7)(3y + 2) = 0$

$\Rightarrow y = -\frac{7}{4}, -\frac{2}{3}$

$\therefore x \geq y$

45.(1)

I.  $17x^2 + 48x = 9$

$\Rightarrow 17x^2 + 48x - 9 = 0$

$\Rightarrow 17x^2 + 51x - 3x - 9 = 0$

$\Rightarrow 17x(x + 3) - 3(x + 3) = 0$

$\Rightarrow (17x - 3)(x + 3) = 0$

$\Rightarrow x = \frac{3}{17}, -3$

II.  $13y^2 = 32y - 12$

$\Rightarrow 13y^2 - 32y + 12 = 0$

$\Rightarrow 13y^2 - 26y - 6y + 12 = 0$

$\Rightarrow 13y(y - 2) - 6(y - 2) = 0$

$\Rightarrow (13y - 6)(y - 2) = 0$

$\Rightarrow y = \frac{6}{13}, 2$

$\therefore x < y$

46.(2)

TOI Mumbai : 6500

Avg. of Tribune riders :

$\frac{1}{3} [9500 + 11500 + 2400] = \frac{23400}{3} = 7800$

Difference =  $7800 - 6500 = 1300$

Delhi :  $15000 + 18000 + 12000 + 9500 + 5500 = 60000$

(except ET)

Mumbai :  $12000 + 6500 + 8000 + 11500 = 38000$

(except ET & Chronicle)

Desired % =  $\frac{60000}{38000} \times 100 \approx 160\%$

Delhi :  $60000 + 7500 = 67500$

Mumbai :  $38000 + 30000 = 68000$

Kolkata :  $10500 + 12000 + 15000 + 2400 + 4000 + 7500 = 51400$

Total users =  $67500 + 68000 + 51400 = 186900$

48.(1)

$\frac{1}{3}$  (Mumbai Reader) =  $\frac{68000}{3}$

3 (Hindu reader) =  $3 [15000 + 12000 + 10500] = (37500 \times 3)$

Ratio =  $\frac{68000}{37500 \times 9} = 136 : 675$

49.(5)

Readers Chennai =  $\frac{70}{100} (51400) = 35,980$

Tribune in Chennai =  $7500 \times \frac{5}{4} = \frac{37500}{4} = 9375$

Total reader except Tribune in all 4 metro city now

=  $(35980 + 67500 + 68000 + 51400)$

-  $(9375 + 9500 + 11500 + 2400)$

=  $222880 - 32775 = 190105$

51.(2)

The pattern is  $\div 3, \div 4, \div 3, \div 4, \dots$

52.(4)

Series is  $\times 0.2, \times 0.3, \times 0.4, \times 0.5, \dots$

53.(1)

Pattern is  $+23 \times 1, +23 \times 2, +23 \times 3, +23 \times 4, \dots$

54.(5)

Pattern is  $\times 3 + 1.5 \times 1, \times 6 + 1.5 \times 2, \times 12 + 1.5 \times 4, \times 24$

$+ 1.5 \times 8$

55.(3)

Pattern is  $\times 2^2, \times 4^2, \times 6^2, \times 8^2$

56.(2)

A:  $\frac{P}{Q} = \frac{4}{5}$

B:  $Q = P \times \frac{125}{100} \Rightarrow \frac{P}{Q} = \frac{4}{5}$

C:  $Q - P = 10$

With C and either A or B, we can get the value of P and Q

57.(2)

With A and B:

The ratio of investment of Manoj and Paresh

=  $35000 \times 6 : 30000 \times 11 = 7 : 11$

$\therefore$  Total profit (with help of C) =  $\frac{18}{11} \times 4400 = 7200$

So, all statements are required

# Grand Test – SPP 170465

58.(2) As both the TVs have neither been bought for Rs. 34000 each nor have been bought at equal cost for Rs. 34000 together (i.e. for Rs. 17000 each), so even with all three statements together desired results can't be calculated.

59.(5) Since the direction of both trains are not given, we can't find out the length of another train.

60.(1) Let Raju do  $x$  job in one day and Rinku do  $y$  job in one day.  
 A:  $30(x + y) = 1$  job  
 B:  $20(x + y) + 20y = 1$  job  
 C:  $60x = 1$  job  
 So, by solving any two we can get the value of  $y$ .

61.(1)  $\frac{1}{4} \times 2844 + 15 \times 2400 = 711 + 36000 \approx 36700$

62.(2)  $\frac{1010}{36} + 187 \times 20 \approx 28 + 3740 = 3768 \approx 3770$

63.(5)  $\frac{5}{4} \times 4875 + 88 \times 15 = 5 \times 1219 + 1320$   
 $= 6095 + 1320 = 7415$

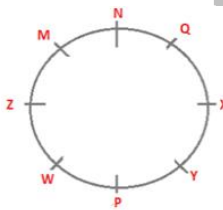
64.(5)  $\frac{39 \times 15 - 28 \times 10}{5} = 36 + ? \Rightarrow 61 = 36 + ? \Rightarrow ? = 25$

65.(5)  $158 \times 4 + \frac{1}{5} \times 850 + ? = 951$   
 $\Rightarrow 632 + 170 \approx 802 + ? = 951 \Rightarrow ? \approx 150$

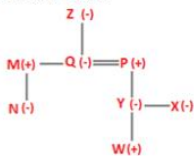
66-70. Logic:- in the following coding decoding the pattern is following the cube of the total number of letter in the word then minus 3 from that for even number and plus 3 from that for odd number.

- 66.(2)                      67.(3)
- 68.(3)                      69.(5)
- 70.(5)

71-75.



**TREE FORM-**



- 71.(4)                      72.(3)
- 73.(1)                      74.(3)
- 75.(2)
- 76-80.

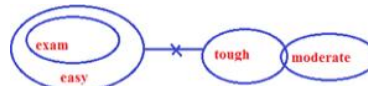
Students	Day	Type of gifts	Mode of transportation
W	Sunday	Shirt	Cab
R	Monday	Cup	Bike
S	Monday	Flower	Bus
P	Tuesday	Wall clock	Car
Q	Wednesday	Photo frame	Metro
T	Thursday	Medals	Auto
V	Friday	Pens	Taxi
U	Saturday	Diary	Rickshaw

- 76.(2)                      77.(1)
- 78.(4)                      79.(4)
- 80.(1)

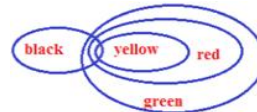
81-85.

Floor no.	Person	Mobile
8	M	Nokia
7	N	Apple
6	R	MI
5	Q	Swipe
4	S	Lenovo
3	P	Micromax
2	L	LG
1	O	Moto

- 81.(1)                      82.(4)
- 83.(2)                      84.(5)
- 85.(2)
- 86.(4)



87.(1)



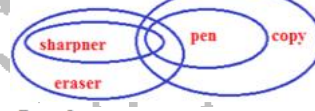
88.(5)



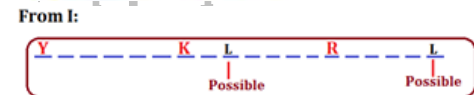
89.(3)



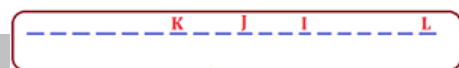
90.(2)



91.(3)



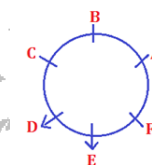
From II:



From I, the position of L is not confirm. So, we cannot find the answer but IInd is sufficient to answer the question.

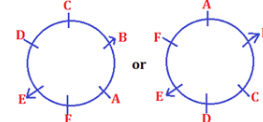
92.(5)

From I:



Clearly A is 2<sup>nd</sup> to the left of E.

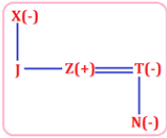
From II:



There is two possible conditions that's why position of A is not confirmed.

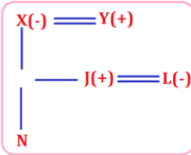
93.(3)

From I:



X is Grandmother of N.

From II:



X is grandmother of N.

94.(3)

From I:

U>S>R>T>V>W

U is the costliest.

From II:

U>S>R>T>V>W

U is the costliest.

95.(2)

From I:

Floor	Person
6	R/O
5	M
4	Q
3	P
2	N
1	O/R

From II:

Floor	Person
6	O
5	Q/M
4	M/Q
3	P
2	N
1	R

R lives on the Lower most floors.

96.(1)

97.(4)  $16 + 8 + 0 + 2 + 1 = 27$

98-100. Height –  $R > Q > S > V > T > P$

Weight –  $S > P > R > Q > T > V$

98.(5)

99.(2)

100.(4)

