

SBI PO Preliminary Grand Test –SPP-170330 **HINTS & SOLUTIONS**

- 1.(4) misconceptions about the aid given to the poor nations by developed countries
- improving their own national behaviour 2.(2)
- 3.(3) despite rampant corruption, nations may prosper
- 4.(5) All the three
- 5.(4) the U.S., on its own, assumes the obligation of helping the poor countries
- 6.(1) The U.S. aid meant for per capita African does not reach the incumbent
- 7.(5) The meaning of the word Obligation (Noun) as used in the passage is: the state of being forced something because it is your duty or because of a law etc; commitment; moral binding. Look at the sentence :
 - We have a moral obligation to protect the environment.
- 8.(2) The meaning of the word Squander (Verb) as used in the passage is : to waste time, money etc. in a stupid or careless way.

Look at the sentence:

She squandered all her money on gambling.

The meaning of the word Extensive (Adjective) as used 9.(5) in the passage is : covering a large area; great in amount.

Look at the sentence:

The fire caused extensive damage.

The word Negligible (Adjective) means : of very little importance or size: insignificant. Hence, antonym of the word extensive should be negligible.

The meaning of the word Prolonged (Adjective) as used 10.(4) in the passage is: continuing for a long Lime.

Its antonym should be short-lived which means: lasting only for a short time.

- Here, adjective i.e. necessary should be used, not an 11.(1) adverb.
- Here, adjectives should be used. 12.(2)

13.(5)

- Here, adjective should be used and the clause should be 14.(2) in Present Tense.
- 15.(1) Help is followed by infinitive without to. That should be replaced by how.

Look at the sentences:

He knows how to swim.

110 1010 10 10 10 10 10 10 10 10 10 10 1		
	He knows what to do.	
16.(3)	17.(1)	
18.(4)	19.(5)	
20.(2)	21.(1)	
22.(5)	23.(4)	
24.(1)	25.(4)	
26.(2)	27.(1)	
28.(5)	29.(5)	
30.(4)		
31.(3)	Series is +23, +(23×2), +(23×3), +(23×4), +(23×5)	

and so

Next no $739 + 23 \times 6 = 927$

32.(5) Series is $\times 1 + 2$, $\times 2 + 3$, $\times 3 + 4$ and so on. Next no. is $3291 \times 6 + 7 = 19753$.

- 33.(4) Series is $\times 1$, $\times (1+4)$, $\times (5+4) = \times 9$, $\times (9+4) = \times 13$ and so on. Answer = $129285 \times 21 = 2714985$.
- Seiries is 1⁴, 2⁴, 3⁴, 4⁴, and so on. 34.(2) Next number is 2401.
- 35.(1) Series is $\times 2 + 6$, $\times 2 + 6$, $\times 2 + 6$, $\times 2 + 6$. Next number is 410.
- $x^2 = \frac{1}{9} \Rightarrow x = \frac{1}{3}, -\frac{1}{3}$ 36.(3) $y = \frac{1}{4}, -3$

Hence there is no relation between x and y.

37.(1)
$$x = -2, \frac{1}{3} \text{ and } y = \frac{5}{2}, 1$$

38.(5)
$$x = -\frac{5}{3}, -\frac{1}{2} \text{ and } y = -\frac{5}{3}, -2$$

39.(1)
$$x^2 = 5$$

$$\therefore x = +\sqrt{5} \text{ and } -\sqrt{5}$$

$$y = \frac{5}{7}, \frac{7}{7}$$

- 40.(4) x = 7, y = 5
 - Hence x > y.
- 41.(2) Number of male members in 2008:

Health club A
$$\Rightarrow \frac{2400 \times 20}{100} = 480$$

Health club D
$$\Rightarrow \frac{2400 \times 12}{100} = 288$$

Let the increase in members in each club be x.

$$\therefore \frac{480 + x}{288 + x} = \frac{17}{11}$$

$$\Rightarrow 4896 + 17x = 5280 + 11x$$

$$\Rightarrow 17x - 11x = 5280 - 4896$$

$$\Rightarrow 6x = 384$$

$$\Rightarrow x = \frac{384}{6} = 64$$

... Number of male members in health club D in 2009 = 288 + 64 = 352

Total members in health clubs C, D and E 42.(3)

$$= 4200 \times \left(\frac{32 + 12 + 10}{100}\right)$$
$$= \frac{4200 \times 58}{100} = 2436$$

Number of male members in health clubs C, D, and E

$$= 2400 \times \left(\frac{33+12+10}{100}\right) = 24 \times 55 = 1320$$

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- ... Number of female members = 2436 -1320 = 1116
- ∴ Required average $=\frac{1116}{3}=372$
- Total members health club E = $\frac{4200 \times 8}{100}$ = 336 43.(4)
 - Male members = $\frac{2400 \times 10}{100}$ = 240
 - Life time members = $\frac{336}{2}$ = 168

Life time male members = 168 - 44 = 124

- :. Required percent = $=\frac{124}{240} \times 100 = \frac{155}{3} = 51\frac{2}{3}$
- 44.(3)
 - $\therefore 24\% = \frac{360}{100} \times 24 = 86.4^{\circ}$
- 45.(5) Total members in health club A

$$=\frac{4200\times18}{100}=756$$

Male members = $\frac{2400 \times 20}{100}$ = 480 Female members = 756 - 480 = 276

In health club B

Male members =
$$\frac{2400 \times 25}{100} = 600$$

:. Required percent

$$=\frac{600-276}{600}\times100=\frac{324}{6}=54\%$$

Unsold units of the company in year 2008 46.(5) = (25 - 17.5) = 7.5 lacs

Unsold unit of company in year 2011

= (30 - 20) = 10 lacs

Hence required difference = (10 - 7.5) = 2.5 lacs

- Required avg. = 1/6 x (35 + 37.5 + 25 + 40 + 32.5 + 30) lacs 47.(2) $= 1/6 \times 200 = 33 \text{ lacs}$
- 48.(2) Required ratio = 37.5 : 25 = 3:2
- Required percentage = [(20/27.5) x 100] = 73% 49.(3)
- 50.(2) Required number = (37.5 - 30) + (32.5 - 25) lacs = (7.5 + 7.5) lacs = 15 lacs
- Area of the circle = $\frac{22}{7} \times (14)^2 = 616 \text{ cm}^2$ 51.(2)

Area of the rectangle = $1166 - 616 = 550 \text{ cm}^2$

- Breadth of the rectangle = $\frac{550}{25}$ = 22 cm
- So, required sum = $2 \times \frac{22}{7} \times 14 + 2(25 + 22) = 182$ cm
- Let the length of train A and train B be x and 2x, then 52.(1)

Speed of train A =
$$\frac{x}{25}$$

Speed of train B = $\frac{2x}{75}$

Required ratio $=\frac{x}{25}:\frac{2x}{75}=3:2$

Let the number of days he was absent be x days. 53.(2)

180(40 - x) - 20x = 5200

7200 - 180x - 20x = 5200

7200 - 200x = 5200

x = 2000/20 = 10 days

54.(5) Efficiency Days

16 64/5 **LCM 64**

32

(A + B + C_ work together for 4 days

 $=4\times(4+5+2)=44$

C work alone, last 3 days = $3 \times 2 = 6$

Remaining work done by (B + C)

= (64 - 50) / 7 = 14/7 = 2 days

Total days = 4 + 3 + 2 = 9 days.

55.(3) Let A complete the work in x days and

B complete the work in y days. So, By 1st case,

$$\frac{2}{x} + \frac{9}{y} = 1$$
 ...(1)

$$\frac{3}{x} + \frac{6}{y} = 1$$
 ...(2)

From Eq. (1) and (2), y = 15 days.

56.(2)
$$(x + 2520) = x \left(1 + \frac{10}{100}\right)^2$$

x = Zaheer's profit

x = 12000

y = Aashish's profit

$$4200 = \frac{y \times 20 \times 1}{100}$$

Umesh's profit = Rs. 9000

Ratio of their profits

= 12000 : 21000 : 9000

= 12:21:9=4:7:3

Umesh's share
$$=\frac{3}{14} \times 70000 = \text{Rs.}15000$$

Vidya and Priyanka cost price and marked price equal.

Vidya Selling price = (MP-20) ×
$$\frac{80}{100}$$
 = 0.8MP – 16

Priyaka Selling price
$$=$$
 $\left(MP \times \frac{80}{100}\right) - 20 = 0.8mp - 20$

Vidya % profit = 3 (Priyanka % loss

$$\left(\frac{SP - CP}{CP}\right) \times 100 = 3 \left(\frac{CP - SP}{CP} \times 100\right)$$

$$Vidya: \left(\frac{8MP - 16 - CP}{CP}\right) \times 100$$

= Priyanka :
$$3 \left[\frac{CP[-0.8MP + 20}{CP} \times 100 \right]$$

(0.8MP - 16 - CP) = 3(CP - 0.8MP + 20) ...(1)

Profit of vidya in Rupees = SP Vidya - CP

= 0.8 MP - 16 - CP

Putting value from eqn.(1)

Profit of Vidya = Rs. 3.

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58.(1) Let Suresh take x days to complete the work. So in one

day Suresh does = $\frac{1}{x}$

Given total efficiency of Ramesh and Suresh in one day = $\underline{1}$

So Ramesh = $\frac{1}{p} - \frac{1}{x}$

According to question = $\frac{q}{p} + \left(\frac{1}{x}\right) = \frac{1}{r}$

- So, $x = \frac{pr}{p-q}$
- So, Suresh takes = $\frac{pr}{p-q}$
- So, Ramesh takes = $\frac{pr}{r p + q}$
- 59.(1) Initial speed of police = 10 m/s
 Increase speed of police = 20 m/s
 Speed of thief = 15 m/s

Initial difference between thief and police = 250 mAfter 5 seconds difference between thief and police = $250 - (5 \times 10) = 200 \text{ m}$

After 10 seconds more the difference between thief and police = $200 + (5 \times 10) = 250 \text{ m}$.

Now, the time required by police to catch the thief

$$=\frac{250}{5}=50$$
 s

Distance travelled = $50 \times 20 = 1000 \text{ m}$ Total time = 50 + 15 = 65 sTotal distance = $1000 + (15 \times 10) = 1150 \text{ m}$.

60.(2) Pipe A fills $\frac{3}{5}$ th part of tank in 27 hours.

∴ Time taken in filling completely

$$=\frac{27\times5}{3}=45 \text{ hours}$$

: Part of tank filled by A and B in 1 hour =

$$\frac{1}{45} + \frac{1}{30} = \frac{2+3}{90} = \frac{1}{8}$$

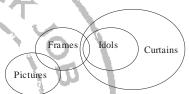
Required time = 18 hours

- 61.(1) Average number = 1/6 (2 + 3 + 4 + 5 + 4 + 7) lacs = $1/6 \times 25 = 4.1$ lakh
- 62.(2) Required % = [25/(5 + 6 + 5 + 8 + 5 + 9)]x 100 = 2500/38 = 66
- 63.(3) The total number of candidates who applied for both the banks together is 9 lacs in 2004, 2009 and 2007 separately.
- 64.(1) Required number of disqualified candidates = (80/100)x9 lacs = 7200/100 lacs = 7.2 lacs
- 65.(2) Required ratio = (5 + 7)/(5 + 9) = 12/14 = 6 : 7.
- - \$ → ≤ % → >
 - % → > # → <
 - # → =

- 66.(4) Statement: $A \ge B < C \le D$ Conclusions:

 I. D > AII. C > A
- 67.(2) Statement: $M \le N \ge P > Q$ Conclusions
 I. P = M II. Q < N
- 68.(4) Statement: E > F < G ≥ H
 Conclusions
- $\begin{array}{ccc} & \text{I. H} < F & \text{II. E} > G \\ \text{69.(3)} & \text{Statement: J} = K \leq L > M \\ & \text{Conclusions} \end{array}$
- 70.(1) II. L > J 70.(1) Statement: W < X > Y = Z Conclusions I. Z < X II. Y < W
- 71.(3)

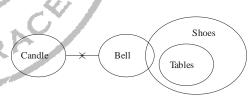
 Cars Wheels Pots Tyres



73.(4)

Ices Rings Paint

Gold



Papers Black
Toys

76-80. In the first step the highest number is placed at the extreme left position and in second step the word which comes first in the alphabetical order is placed at the extreme right position. In the next step the second highest number is placed at the second position from the left. After that step the word which comes second in the alphabetical order is placed at the extreme right position. These two steps are continued alternatively till all numbers and words are arranged.

Input: class 25 war 15 race 73 heap 58 just 88 take 38 Step I: 88 class 25 war 15 race 73 heap 58 just take 38 Step II: 88 25 war 15 race 73 heap 58 just take 38 class

75.(3)

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Step III: 88 73 25 war 15 race heap 58 just take 38 class Step IV: 88 73 25 war 15 race 58 just take 38 class heap Step V: 88 73 58 25 war 15 race just take 38 class heap Step VI: 88 73 58 25 war 15 race take 38 class heap just Step VII: 88 73 58 38 25 war 15 race take class heap just Step VIII: 88 73 58 38 25 war 15 take class heap just race Step IX: 88 73 58 38 25 15 war take class heap just race Step X: 88 73 58 38 25 15 war class heap just race take Step XI: 88 73 58 38 25 15 class heap just race take

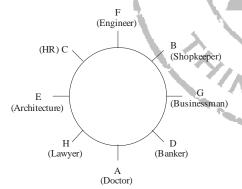
76.(5)	77.(2)
78.(1)	79.(1)
80.(3)	

Day	Dance Style
Monday	Western Dance style
Tuesday	Lavani Dance style
Wednesday	Bharatnatyam Dance style
Thursday	Bhangra Dance style
Friday	Kuchipudi Dance style
Saturday	Disco Dance style
Sunday	Freestyle Dance style

- 81.(2) Lavani Dance style was performed on Tuesday.
- 82.(4) Freestyle dance style was performed on Sunday.
- 83.(1) The combination Monday-Western dance style is correct.
- 84.(3) Four dance styles-Bharatnatyam, Bhangra, Kuchipudi and Disco-were performed between Lavani and Freestyle dance styles
- 85.(5) Bhangra dance style was performed immediately after Bharatnatyam dance style.

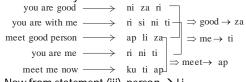
86-90.

(81-85):



- 86.(1) A Doctor
- 87.(2) In both CW and ACW. You see there are three persons. In between C and D.
- 88.(3) Lawyer is fourth right of shopkeeper B.
- 89.(1) In both CW and ACR you see there are three persons in between Doctor and Engineer.
- 90.(3) D is immediate right of A.
- 91.(5) Except (5) in each case third person is sitting between first and second person.
- 92.(4) $A \xrightarrow{+1} D \xrightarrow{+2} B \xrightarrow{+3} E \xrightarrow{+4} G \xrightarrow{+5} H$
- 93.(3) From I, weight of each pole = (4 × 5) kg = 20 kg
 Total weight of 10 pole = 20 × 10 = 200 kg
 From II, weight of each pole = (weight of 3 poles) –
 (weight of 2 poles)
 Weight of 10 poles = (20 × 10) kg = 200 kg.

- 94.(5) From both I and II we get that Rahul is (35-25) = 10 years older than his brother, M who was born in 1964, So, Rahul was born in 1954.
- 95.(4) From I, we conclude that H is the only daughter of M. But this does not indicate that M has no son. The information given in II is immaterial.
- 96-100. Use different symbols to different words as:



Now from statement (iii), person \rightarrow Li Statement (v), now \rightarrow ku Also from (i), (ii) and (iii), you are \rightarrow ni ri From (ii) with \rightarrow si

	FIOHI (II), WILLI 🔰 SI	
96.(4)		97.(5)
98.(1)		99.(1)
400 (0)		