

## SBI PO Preliminary Grand Test –SPP-170452

### HINTS & SOLUTIONS

- 1.(1) Refer the fifth paragraph.
2. (3) The entire passage talks about the importance of understanding life as a whole to make technological development really meaningful.
3. (3) The sentence sounds conclusive.
4. (2) Option (5) cannot be the answer because the passage keeps wholeness of life in core and analyses everything in view of it.
5. (2) Engender mean cause or give rise to (a feeling, situation, or condition) hence beget is the word most similar in meaning.
- 6.(4) 'evading, absence' is the correct use.  
Evading- escape or avoid (someone or something)
7. (2) 'decided, assurance' is the correct use.  
Assurance- a positive declaration intended to give confidence
8. (3) 'suffer, associated' is the correct use.  
Suffer- experience or be subjected to (something bad or unpleasant).  
Associated- to connect or bring into relation, as thought, feeling, memory, etc.
9. (4) 'What, looking' is the correct use.
- 10.(3) Pursuing means following or chasing (someone or something).
- 11.(3) Use 'necessity' in place of 'necessary' because 'necessary' is an ADJECTIVE while 'necessity' is a NOUN.
- 12.(2) Use 'has visited' in place of 'visit' because we use 'recently' in PRESENT PERFECT or SIMPLE PAST.
- 13.(5) No error
- 14.(4) Use 'understood' in place of 'understand' because in Passive Voice we use To Be + V3
- 15.(2) Use 'of' in place of 'by' because with "pros and cons", we use PREPOSITION 'of'.
- 16.(4) Use 'bacterium' in place of 'bacteria' because bacteria is a PLURAL NOUN while 'bacterium' is a SINGULAR NOUN
- 17.(4) Use 'excessively' in place of 'excessive' because with 'sweet' we use Adverb.
- 18.(5) No error
- 19.(2) Use 'shot' in place of 'shoot' because in Passive Voice with 'be' we use V3.
- 20.(1) Remove 'a' because we use go on + V4
- 21.(2) 22.(3)
- 23.(1) 24.(4)
- 25.(2) 26.(4)
- 27.(2) 28.(4)
- 29.(3) 30.(3)
- 31.(2) The pattern is :  $\div 3, \div 4, \div 3, \div 4, \dots$
- 32.(2) The pattern is:  
 $461 + 13 = 474$   
 $474 - 9 = 465$   
 $465 + 13 = 478$   
 $478 - 9 = 469$   
 $469 + 13 = 482$
- 33.(2) Pattern is  $\times 2 - 1, \times 4 - 3, \times 6 - 5, \times 8 - 7, \times 10 - 9 \dots$
- 34.(5) Pattern is  $1^3 + 1, 4^3 - 4, 2^3 + 2, 5^3 - 5, 3^3 + 3, 6^3 - 6$
- 35.(2) Pattern is  $+2^2, +3^2, +4^2, +5^2, +6^2$   
So,  $? = 91 + 7^2 = 140$ .
- 36.(4)  $x = 16, -16$   
 $y = 16$   
 $x \leq y$
- 37.(3)  $15x^2 - 25y - 21x + 35 = 0$   
 $5x(3x - 5) - 7(3x - 5) = 0$   
 $x = \frac{7}{5}, \frac{5}{3}$   
 $4y^2 - 7y - 8y + 14 = 0$   
 $y(4y - 7) - 2(4y - 7) = 0$   
 $y = 2, \frac{7}{4}$   
 $x < y$
- 38.(1)  $3x^2 - 9x - 6x + 18 = 0$   
 $3x(x - 3) - 6(x - 3) = 0$   
 $x = 2, 3$   
 $2y^2 + 9y + 6y + 27 = 0$   
 $y(2y + 9) + 3(2y + 9) = 0$   
 $y = -3, -\frac{9}{2}$   
 $x > y$
- 39.(1)  $3x + 4y = 41$   
 $3x + 2y = 31$   
 $2y = 10, y = 5, x = 7$   
 $x > y$
- 40.(2)  $x^2 - 9x - 7x + 63 = 0$   
 $x(x - 9) - 7(x - 9) = 0$   
 $x = 7, 9$   
 $y^2 - 7y + 5y - 35 = 0$   
 $y(y - 7) + 5(y - 7) = 0$   
 $y = -5, 7$   
 $x \geq y$
- 41.(3) Required percentage =  $\frac{3850 - 3750}{3850} \times 100 \approx 2.6\%$
- 42.(2) Total arrests in 2011, 2013 & 2015 = 5900  
 $\therefore$  Required percent =  $\frac{2000}{5900} \times 100 \approx 34\%$
- 43.(4) Required average =  $\frac{1}{3} \times (650 + 700 + 750) = 700$ .
- 44.(5) Asked ratio =  $\frac{550 + 750 + 600}{700 + 650 + 550} = \frac{1900}{1900} = 1:1$
- 45.(2) Required difference  
 $= |(650 + 750 + 750 + 550 + 600 + 500) - (650 + 750 + 700 + 600 + 650 + 500)|$   
 $= |3800 - 3850|$   
 $= 50$
- 46.(2)  $\frac{\text{City D}}{\text{City A}} = \frac{8.5 \times 14 \times 80}{8.5 \times 21 \times 72} = \frac{20}{27}$   
 Required value =  $\frac{27}{20} = 1.35$  times.

- 47.(1) Required difference  

$$= 8.5 \times \left( \frac{16}{100} \times \frac{75}{100} + \frac{14 \times 80}{10000} \right) - 8.5 \left( \frac{16 \times 75 \times 3}{10000 \times 5} + \frac{14 \times 80}{10000} \times \frac{9}{16} + \frac{10 \times 60 \times 7}{10000 \times 12} \right)$$

$$= 85 [1200 + 1120] - 85[720 + 630 + 350] = 52700.$$
- 48.(3) 
$$\frac{8.5 \left[ \frac{21 \times 7255}{10000 \times 12} + \frac{24 \times 65 \times 5}{10000 \times 13} \right]}{8.5 \left[ \frac{14 \times 80 \times 9}{10000 \times 16} + \frac{15 \times 70 \times 4}{10000 \times 7} \right]} = \frac{630 + 600}{630 + 600} = 1:1$$
- 49.(4)  $A + B + F = 21 + 24 + 10 = 55\%$   
 $C + E + F = 16 + 15 + 10 = 41\%$   
 Difference =  $14\% = 14 \times \frac{18}{5} = 50.4^\circ$
- 50.(5)  $\frac{1}{10} \left[ \frac{850000 \times 21 \times 72}{100 \times 100} \right] = 12852$  graduates are 10% of Adults from city A.

Adult females from B =  $\frac{24}{100} \times \frac{65}{100} \times \frac{5}{13} \times 850000$

Ratio =  $\frac{85 \times 21 \times 7.2}{24 \times 25 \times 85} = 63 : 250$

- 51.(1) Let original price = x  

$$\frac{A/q, 240 \times 5 - 240}{\frac{4x}{300} - \frac{x}{240}} = 6$$

$$\Rightarrow \frac{x}{Rs. 10/kg}$$

- 52.(5) volume of solid sphere = volume of cone  

$$\Rightarrow \frac{4}{3} \pi r^3 = \frac{1}{3} \pi r^2 h$$

$$\Rightarrow \frac{r}{h} = \frac{1}{4}$$
 $r : h = 1 : 4$

- 53.(1) ratio of time =  $\frac{1}{1} : \frac{1}{4} : \frac{1}{16} \Rightarrow \frac{1}{1} : \frac{1}{4} : \frac{1}{16} \Rightarrow 16 : 4 : 1$   
 Now, ratio of time taken/velocity =  $\frac{16}{1} : \frac{4}{4} : \frac{1}{16} \Rightarrow 256 : 16 : 1$

- 54.(2) A does work in  $\rightarrow 15$  days  
 $\therefore$  B can do in  $\rightarrow \frac{15}{2}$  days  
 Now, Let B worked for x days.  
 $A/q, \frac{11}{15} + \frac{x \times 2}{15} = 1$   
 $\Rightarrow 2x + 11 = 15$   
 $x = 2$  days  
 So, they worked together for 2 days.

- 55.(4) We can conclude  
 $A : (B + C + D) = 100 : 460 = 10 : 46$   
 $\Rightarrow$  A's contribution = 10 lakhs  
 $\& B : (A + C + D) = 100 : 366.66$   
 $= 3 : 11 = 12 : 44$   
 $\Rightarrow$  B's contribution = 12 lakh  
 $\& C : (A + B + D) = 40 : 100$   
 $= 2 : 5 = 16 : 40$   
 $\Rightarrow$  C's Contribution = 16 lakh  
 Hence, the contribution of D  
 $= 56 - (10 + 12 + 16) = 18$  lakhs

- 56.(4) Given  
 $SP = 5$  (Discount)  
 $SP = 5 [MP - SP]$   
 $\Rightarrow MP = \frac{6}{5} SP \dots (i)$

Also,  
 $\%D = \%P$   
 $\frac{MP - SP}{MP} \times 100 = \frac{SP - CP}{CP} \times 100$   
 (Discount is always on MP)

$$\frac{\frac{6}{5} SP - SP}{\frac{6}{5} SP} = \frac{SP - CP}{CP}$$

$$\Rightarrow \frac{1}{6} = \frac{SP - CP}{CP}$$

$$\Rightarrow 7CP = 6SP$$

$$\Rightarrow CP = \frac{6}{7} SP \dots (ii)$$

$$\frac{D}{C} = \frac{\left( \frac{6}{5} SP - SP \right)}{\frac{6}{7} SP} = \frac{\frac{1}{5} SP}{\frac{6}{7} SP} = \frac{7}{30} = 7 : 30$$

57.(4)  $1008 = \frac{P \times 11 \times 5}{100} - \frac{P \times 8 \times 6}{100}$

On solving, P = Rs. 14,400

A - 24	20
B - 32	480 15
C - 60	8

58.(3)

Work done in 6 days = 258 units by A, B and C.

Work done in next 2 days = 46 units by B & C

$\therefore$  Remaining work =  $480 - 258 - 46 = 176$  unit

$\therefore$  Extra time taken by C =  $\frac{176}{8} = 22$  days

$31 + 64 + x + (x + 4) + (x + 7) = 160$

$\therefore x = 18$

So, eighth number is  $18 + 7 = 25$

59.(3)

60.(2) Time taken by P to cultivate  $\frac{4}{5}$ th of the land = 12 days  
 Time taken by Q to cultivate  $\frac{4}{5}$ th of the land

$= 10 \times 3 \times \frac{4}{5} = 24$  days

Time taken by P and Q together to cultivate  $\frac{4}{5}$ th of

land =  $\left( \frac{1}{\frac{1}{12} + \frac{1}{24}} \right) = 8$  days

61.(3)

$32 \div 4 \div 10 + 29 = ?$

$\Rightarrow ? = 8 \div 10 + 29 = 29.8 \approx 30$

62.(5)

$\sqrt{?} = (1248.28 + 51.7) \div 99.9 - 7.98$

$\Rightarrow \sqrt{?} = (1300 \div 100) - 8 = 5$

$\Rightarrow ? = 25$

63.(4)

$36\sqrt{x} + 32\sqrt{x} = \frac{68}{11} \times x$

$\Rightarrow 68\sqrt{x} = \frac{68}{11} \times x \Rightarrow \sqrt{x} = 11$

$\Rightarrow x = 121$

64.(4)

$(?)^2 \approx 96 - 4 + 104 = 196 \Rightarrow ? \approx 14$

65.(2)

$129 - 224 = -95.$

66-70.

Logic:- First letter of the word is replaced by its next letter according to English alphabetical series and last letter of the word is replaced by total number of letter in the word.

# Grand Test – SPP 170452

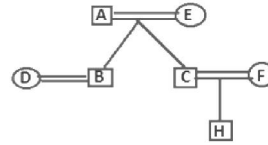


- 66.(3) None5 Mas4 Farnin7 Xa3
- 67.(3) Hoo4 Qerfec7 Blway6 Qeopl6
- 68.(5) Blway6 lenc5 lanc5 Xron5
- 69.(2) Garmin7

- 90.(5)
- 92.(4)
- 94.(1)
- 96.(4)
- 97.(1)
- 91.(5)
- 93.(2)
- 95.(3)

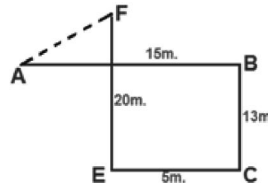
- 71.(1) Susan D'souza meets all the conditions. Hence, she will be selected.
- 72.(2) Archana Sahu neither meets condition (v) nor its exception. Hence she will not be selected.
- 73.(2) Age of Atul Garg is more than the maximum age limit. Hence, he will not be selected.
- 74.(4) Meena Gogi meets all the conditions except condition (v) but meets the exception to condition (v), hence her case should be sent to Chairman.
- 75.(3) Sudhakar Bagchi meets all the conditions except condition (i) and also meets exception to the condition (i), hence his case should be sent to ED.

The woman is the daughter-in-law of that person.



- 98.(3)  $P, M > J > R, T$

99-100.



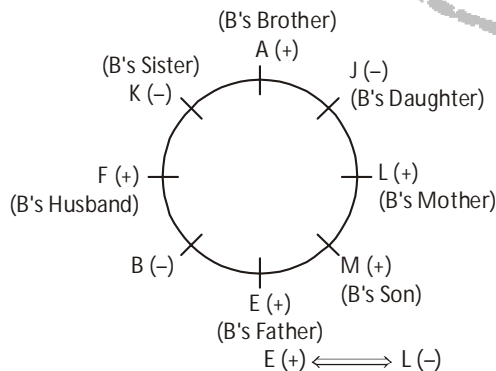
- 99.(4)
- 100.(5)

Switzerland	Australia	Russia	China
Justin Bieber	Michael Jackson	Lady Gaga	Jennifer Aniston
Johnny Depp	Will Smith	Beyonce	Katy Perry
India	UK	Nepal	USA

- 76.(2) 77.(5)
- 78.(4) 79.(1)
- 80.(4)
- 81-85.

Day	Person	Colour	Sports
25th	P	Blue	Basketball/Badminton
26th	M	Grey	Skating
27th	R	Pink	Cricket
28th	U	Black	Basketball/Badminton
29th	Q	Red	Football
30th	S	Green	Rugby
31st	T	White	Hockey

- 81.(4) 82.(1)
- 83.(5) 84.(3)
- 85.(2)
- 86-90.



A (+) — K (-) — B (-) ↔ F (+)

M (+) — J (-)

- 86.(2) 87.(4)
- 88.(3) 89.(1)