

## SBI PO Preliminary Grand Test –SPP-170459

### HINTS & SOLUTIONS

- 1.(5) Run a separate medical course for three and a half years which can be taken up only by rural candidates who would ultimately serve in the rural areas.;  
"The proposal is for a three-and-a-half year course to obtain the degree of Bachelor of Rural Medicine and Surgery (BRMS)."
- 2.(4) As these have failed to meet the norms set by the central government for running the college.;  
Refer to first paragraph of the passage.
- 3.(4) Only (B) and (C);  
Refer to last two sentences of second paragraph.
- 4.(5) All (A), (B) and (C);  
Refer to last paragraph of the passage.
- 5.(2) All (A), (B) and (C);  
"The card, it is argued, will eliminate the possibility of a teacher being shown on the faculty of more than one college and establish if the qualifications of a teacher are genuine."
- 6.(2) To bring to light the problems faced by the health care sector in India despite changes suggested and goad the government into attaching priority to the sector.;  
Refer to last passage of the paragraph.
- 7.(3) allowed;  
PERMITTED means to allow somebody to do something or to allow something to open. So, allowed is the word which is similar in meaning to it.
- 8.(3) appalling;  
SHOCKING means very bad; that offends or upsets people; that is morally wrong. So, appalling is the word which is similar in meaning to it.
- 9.(4) honest;  
UNSCRUPULOUS means without moral principles, not honest or fair; unprincipled. So, honest is the word which is opposite in meaning to it.
- 10.(2) unyielding;  
COMPLIANT means to willing to agree with people or to obey rules; in agreement with a set of rules. So, unyielding is the word which is opposite in meaning to it.
- 11.(4) testament , flourishing;  
'testament , flourishing' is the correct use.  
Testament- something that serves as a sign or evidence of a specified fact, event, or quality.  
Flourishing- developing rapidly and successfully
- 12.(1) Insatiable, digested;  
'Insatiable, digested' is the correct use.  
Insatiable- impossible to satisfy.
- 13.(3) plans , both;  
'Plans, both' is the correct use.
- 14.(5) recall , had;  
'Recall, had' is the correct use.
- 15.(2) cynical , heard;  
'Cynical, heard' is the correct use.  
Cynical- concerned only with one's own interests and typically disregarding accepted standards in order to achieve them.
- 16.(1) paying a one-rupee coin;  
Replace 'paid a one rupee coin' with 'paying a one-rupee coin'.
- 17.(1) is making;  
Replace 'is to making' with 'is making'
- 18.(3) comes forward to help him;  
Replace 'forward for helping him' with 'comes forward to help him'
- 19.(3) too much work on his servants;  
Replace 'his servants too much work' with 'too much work on his servants'
- 20.(4) What matters;  
Replace 'What matter does' with 'What matters'
- 21-25. The correct sequence to meaningful paragraph is EBFCDA.
- 21.(4) B;
- 22.(5) F;
- 23.(5) E;
- 24.(1) A;
- 25.(3) C;
- 26.(5) issue
- 27.(1) reforms
- 28.(4) relax
- 29.(1) defined
- 30.(2) event
- 31.(4) The series is based on the following pattern:  
 $11 = 2 \times 3 + 5$   
 $38 = 11 \times 4 - 6$   
 $197 = 38 \times 5 + 7$   
 $1172 \neq 197 \times 6 - 8$   
 1172 is wrong and it should be replaced by  $197 \times 6 - 8 = 1174$
- 32.(1) The series is based on the following pattern:  
 $107 - 71 = 36 = 6^2$   
 $71 - 46 = 25 = 5^2$   
 $46 - 30 = 16 = 4^2$   
 $30 - 21 = 9 = 3^2$   
 $21 - 19 = 2 \neq 2^2$   
 19 should be replaced by 17 for which  
 $21 - 17 = 2^2$
- 33.(5) The given number series is based on the following pattern :  
 $487.5 - 357.5 = 130$   
 $357.5 - 247.5 = 110$   
 $247.5 - 157.5 = 90$   
 $157.5 - 87.5 = 70$   
 $87.5 - 47.5 = 40$   
 $87.5 - 37.5 = 50$   
 $37.5 - 7.5 = 30$   
 Clearly, 47.5 is the wrong number. It should be replaced by 37.5.
- 34.(3) The given number series is based on the following pattern :  
 $13 + 3 = 16$   
 $16 + 5 = 21$   
 $21 + 7 = 28 \neq 27$   
 $28 + 11 = 39$   
 $39 + 13 = 52$   
 $52 + 17 = 69$

# Grand Test – SPP 170459



Clearly, 27 is the wrong number. It should be replaced by 28.

35.(3) The pattern is: +81, +83, +85, +87, +89, +91  
Clearly 1833 is the wrong number. It should be replaced by 1836

36.(5)  $x = -3, -\frac{7}{8}$

$y = -4, 1.8$

∴ No relation can't be established

37.(1)  $x = -2.3, -2.2$

$y = -4, -5.6$

∴  $x > y$

38.(2)  $x = 4, 1.8$

$y = -1.5, 1.8$

∴  $x \geq y$

39.(1)  $x = 3, 4.7$

$y = 1.5, 2.5$

∴  $x > y$

40.(5)  $x = 11$

$y = 11$

∴  $x = y$

41.(5) Income of company A in 2008 ⇒

$36 = \frac{x-16.5}{16.5} \times 100$

$594 = 100x - 1650$

$100x = 2244$

$x = 22.44$  lakh

income of company B in 2008 ⇒  $40 = \frac{y-20.8}{20.8} \times 100$

$832 = 100y - 2080$

$100y = 2912$

$y = 29.12$

Total time =  $22.44 + 29.12$

= 51.56 lakhs

42.(1)  $45 = \frac{24.36-x}{x} \times 100$

$45x = 2436 - 100x$

$145x = 2436$

$x = 16.8 =$  expenditure of company A

And  $35 = \frac{18.36-y}{y} \times 100$

$35y = 1836 - 100y$

$135y = 1836$

$y = 13.6 =$  expenditure of company B

Total Required expenditure =  $16.8 + 13.6 = 30.4$  lakhs

43.(2) Let equal quantity =  $x$

∴  $25 = \frac{A-x}{x} \times 100$

$25x = 100(A-x) - 100x$

$100A = 125x$

$A = \frac{125x}{100} = \frac{5x}{4} =$  income of company A in 2009

And,  $25 = \frac{x-B}{B} \times 100$

$25B = 10x - 100B$

$125B = 100x$

$B = \frac{4x}{5} =$  expenditure of company B in 2013

∴ Required Ratio =  $\frac{5}{4} : \frac{4}{5}$

= 25 : 16

44.(3) Income of company A in 2012 =  $\frac{27x}{20}$

Income of company B in 2009 =  $\frac{6x}{5}$

∴ Required % =  $\frac{27x}{20} \times \frac{5}{6x} \times 100$

=  $\frac{900}{8}$

= 112.5%

45.(3) Required year = 2009

46.(1) Total number of students passed from all institutes in the year 2006

= 40% of 550 + 60% of 450 + 68% of 500

+ 60% of 750 + 50% of 450 + 60% of 650

= 220 + 270 + 340 + 450 + 225 + 390 = 1895

47.(5) Total students passed from C from 2001 to 2007

= 65% of 300 + 60% of 350 + 50% of 380

+ 70% of 450 + 75% of 400 + 68% of 500 + 60% of 470

= 195 + 210 + 190 + 315 + 300 + 340 + 282

= 1832

Total student appeared from C

= 300 + 350 + 380 + 450 + 400 + 500 + 470

= 2850

Req. % =  $\frac{1832}{2850} \times 100 \approx 65\%$

48.(2) Req. ratio =  $\frac{66\% \text{ of } 700}{50\% \text{ of } 570} = \frac{66 \times 70}{50 \times 57} = \frac{154}{95}$

49.(4) Req. Ratio

=  $\frac{450+520+430+400+480+550+500}{640+620+580+600+700+750+720} = \frac{3330}{4610} = \frac{333}{461}$

50.(3) Total number of students passed from all institute in 2004.

= 65% of 400 + 75% of 600 + 70% of 450 + 75% of 600 +

60% of 720 + 70% of 780

= 260 + 450 + 315 + 450 + 432 + 546 = 2453

Total students appear in 2004 = 400 + 600 + 450 + 600 +

720 + 780 = 3550

Req. % =  $\frac{2453}{3550} \times 100 \approx 69\%$

51.(2) Let CP = 100

100

2.5% loss      7.5% gain

97.5      107.5

10

10 units = 100

100 units = 1000

SP of radio =  $\frac{112.5}{100} \times 1000 = \text{Rs. } 1125$

52.(3) For Ist trader =  $\frac{1}{5}$   $\begin{matrix} P \\ CP \end{matrix}$   $SP_1 = 6$

For IInd trader =  $\frac{1}{5}$   $\begin{matrix} P \\ SP_2 \end{matrix}$   $CP = 4$

To make  $SP_1$  equal to  $SP_2$

	I trader	II trader	
CP	$5 \times 5 = 25$	$4 \times 6 = 24$	} 6
SP	$6 \times 5 = 30$	$5 \times 6 = 30$	

$(6 - 5)$  units = 85

1 unit = 85

30 unit =  $30 \times 85 = 2550$

53.(2) Principal = Rs. 12000

Rate % = 10%

Interest would have been received by person in 5

years =  $\frac{12000 \times 10 \times 5}{100} = \text{Rs. } 6000$

Interest received by the person after 3 years = Rs(6000 - 3320) = Rs 2680.

By using formula,

Rate % =  $\frac{2680}{12000} \times \frac{100}{3} = \frac{67}{9} = 7\frac{4}{9}\%$

54.(2) When interest calculated half yearly

New rate =  $\frac{10}{2} = 5\%$ , Time = 2 years

Effective rate % =  $5 + 5 + \frac{25}{100} = 10.25\%$

Difference in rate =  $10.25\% - 10\% = 0.25\%$

According to question

$0.25\% = 180$

$100\% = \frac{180}{.25} \times 100 = \text{Rs. } 72000$

55.(1) C.P of wheat =  $30 \times 9.5 + 40 \times 8.5 = 285 + 340 = \text{Rs. } 625$

SP of wheat =  $70 \times 8.9 = \text{Rs. } 623$

Loss = CP - SP =  $625 - 623 = \text{Rs. } 2$  Loss

56.(2)

	Milk	:	Water
4	$\frac{17}{7 \times 3}$	:	$\frac{1 \times 3}{3}$
	$\frac{21}{21}$	:	$\frac{3}{3}$

$17 + 3 = 20$  units = 200

$4 = \frac{200}{20} \times 4 = 40$  ltr

57.(3) A → 20  $\begin{matrix} \searrow \\ 60 \\ \swarrow \end{matrix}$   $\begin{matrix} 3 \text{ units/day} \\ 2 \text{ units/day} \end{matrix}$

B → 30

In 7 days (A + B) do =  $7(3 + 2) = 35$

C finishes remaining work in 10 days.

C's 1 day work =  $\frac{25}{10} = \frac{5}{2}$  units

C finish the complete work in  $\frac{60}{\frac{5}{2}} = 24$  days

58.(1) Speed of A, B and C =  $\frac{1000}{5}, \frac{1000}{8}, \frac{1000}{10}$

= 200m/min, 125m/min, 100m/min

Distance travelled by B and C before A starts = 125, 200 metres

Time taken by A to meet B and C

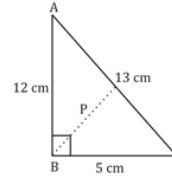
=  $\frac{125}{200 - 125}, \frac{200}{200 - 100} = \frac{5}{3}$  min, 2 min

59.(3)  $n - \frac{n}{2} - \frac{n}{4} - \frac{n}{5} = 7$   
 $\frac{20n - 10n - 5n - 4n}{20} = 7$

$n = 7 \times 20 = 140$

The value of n is 140

60.(2) AB = 12, BC = 5



By using Pythagoras theorem

$AC^2 = AB^2 + BC^2$

$AC^2 = 12^2 + 5^2$

$AC^2 = 144 + 25$

$AC = 13$

Area of  $\Delta ABC = \frac{1}{2} AB \times BC = \frac{1}{2} P \times AC$

$AB \times BC = P \times AC$

$12 \times 5 = P \times 13$

$P = \frac{60}{13} = 4\frac{8}{13}$

61.(5)  $4 + \left(\frac{1}{6} + \frac{3}{4} - \frac{1}{4}\right)$   
 $= 4 + \left(\frac{2+9-3}{12}\right)$   
 $= 4 + \left(\frac{8}{12}\right)$   
 $= 4\frac{2}{3}$

62.(1)  $\frac{45}{6} \times 534 + 262 = 61800 - ?$

$? = 57533$

63.(2)  $349.92 - 167.04 = 182.88$

64.(4)  $\frac{?}{62} \times 12 = 264$

$? = 1364$

65.(1) Using statement I:

$Q > R, S > T > P$

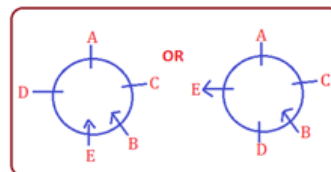
Q is the heaviest.

Using statement II:

$Q > R > S, T, P$

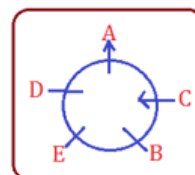
Q is the heaviest.

66.(3) Using statement I:



We cannot determine if all the friends are facing the centre.

Using statement II:



A is facing outside and C is facing the centre of circle. So, all friends are not facing the centre.



## Grand Test – SPP 170459

behavior of their bosses the statement would not have made again it has been highlighted that bosses should not be considered as merely source of reward and punishment. It implies that bosses are generally considered as source of reward and punishment. Hence assumption II is implicit.

- 93.(5) Both assumptions I and II are implicit in the statement.  
 94.(5) Both assumptions I and II are implicit in the statement. The statement implies clearly that length of service or seniority does not alone reflect merit of an employee. uses the word 'alone' in the assumption. If it is not possible to measure the merit of an employee why such statement has been made.  
 95.(2) Only assumption II is implicit in the statement.  
 96-100.

Station	Get in	Get down
Base station	B, C, F and J	X X X
I	G and H	C and J
II	D and I	G and H
III	X X X	D
IV	Only A or E	B and F
V	Only E or A	X X X
VI	X X X	A and E

We get that A and E get down at station VI.  
 But still we do not know where I gets down among the stations III, IV and IV.

- 96.(4)                      97.(3)  
 98.(2)                      99.(3)  
 100.(4)

