

SBI PO Preliminary Grand Test –SPP-170333

HINTS & SOLUTIONS

- 1.(5)
- 2.(1)
- 3.(3)
- 4.(2)
- 5.(4)
- 6.(2)
- 7.(3)
- 8.(5)
- 9.(3)
- 10.(4)
- 11.(5)
- 12.(1)
- 13.(4)
- 14.(5)
- 15.(2)
- 16.(2)
- 17.(1)
- 18.(4)
- 19.(3)
- 20.(5)

21.(1) Second person agrees with a plural verb (in Present simple) should be used.
Hence, If you break the law should be used.

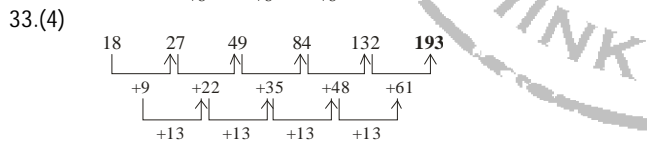
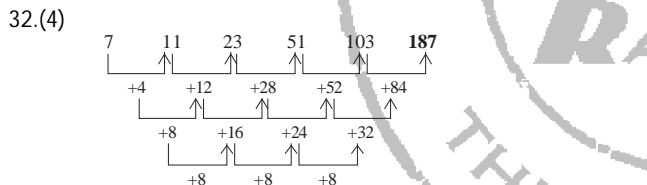
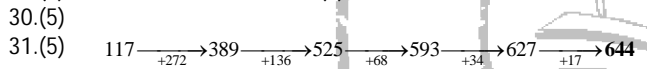
22.(4) To show start, from i.e. staff from the next year should be used.

23.(3) Here, there is/are no transaction/transactions should be used.

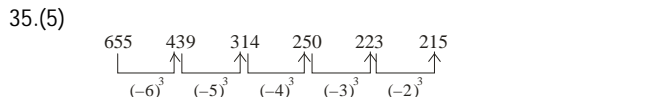
24.(3) Here, understand (infinitive)/ in understanding (Gerund) banking should be used.

25.(1) Here, not a Gerund but a Noun i.e. The power supply (Noun) in should be used.

- 26.(1)
- 27.(3)
- 28.(5)
- 29.(4)



- 34.(1) series is 6, $6*1-2=4$
 $4*2-4=4$
 $4*3-6=6$
 $6*4-8=16$
 $16*5-10=70$



36.(2) From statement I,
Annual income of Boss = x
Mr. Krishnamurthy's annual income = 70% of x
We do not know the value of x
From statement II,
Initial Income = 12000
Therefore income in May
= 12000 + 10% of 12000 = 13200
Similarly, the income for other months can be calculated.

37.(3) From statement I,
Circumference = $2\pi r$
We can find radius (r).
Then we can find Area = πr^2
From statement II,
Diameter = $y = 2 \times$ Radius
We can find area.

38.(5) Let the speed of boat in still water = x km/hr.
Speed of current = y km/hr.
Therefore rate upstream = (x - y) km/hr.
Rate downstream = (x + y) km/hr.

From statement I,
 $x + y = \frac{35}{5} = 7$ km/hr. ... (1)

From statement II,
 $x - y = \frac{35}{7} = 5$ km/hr. ... (2)

From combined statement 1 and 2, we can get the required answer.

39.(5) From statement I,
Let the boys and girls be 5x and 6x.

From statement II,
 $6x - 5x = 7 \Rightarrow x = 7$
 $\Rightarrow 5x = 35 \Rightarrow 7x = 42$

40.(1) From statement I,
SP = 170
Profit percent = 20%

$CP = \frac{1740 \times 100}{120} = 1450$

Profit = 1740 - 1450 = 290
Information in statement II is not required.

41.(2) Number of complaints received per 1000 washing machines for various years.

For year 2008 = $\frac{1000}{40000} \times 1000 = 25$

Similarly for 2009 = 33.33, 2010 = 30, 2011 = 22.5.
Clearly, it is maximum for the years 2009.

42.(4) End of 2008 = (0.4 x 0.9) lacs
= $0.4 \times \frac{90}{100} = 0.36$ lacs

End of 2009 = 0.9(0.36 + 0.6) lacs = 0.86 lacs
End of 2010 = 0.9 (1 + 0.86) = 1.67 lacs
End of 2011 = 0.9(1.67 + 2) = 3.3 lacs

43.(3) Required % increase in 2010
= $\frac{3000 - 2000}{2000} \times 100 = 50\%$

And in 2011 = $\frac{4500 - 3000}{3000} \times 100 = 50\%$

44.(1) Actual number of complaints = 0.9(4500) = 4050
Hence, actual complaints per 1000 washing machines

= $\frac{4050}{200000} \times 1000 = 20.25$

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45.(1) Complaints in 2008 = 1000
 No. of complaints of 'fuse blowing' = 500
 In 2009 = $1.2 \times 500 = 600$
 In 2010 = $1.2 \times 600 = 720$
 In 2011 = $1.2 \times 720 = 864$
 % of complaints of fuse blowing in 2011
 $= \frac{864}{4500} \times 100 = 19.2\%$

46.(3) Required percentage crease = $\frac{1740 - 1450}{1450} \times 100$
 $= \frac{2900}{145} = 20$

47.(4) Required average = $\frac{1820 + 1840 + 1490}{3}$
 $= \frac{5150}{3} = 1716.67$

48.(4) Total number of sony mobile phones sold
 $= 1240 + 1100 + 1690 + 1650 + 1460 = 7140$
 \therefore Required percent = $\frac{1690}{7140} \times 100 = 23.67$

49.(5) Required percent
 $= (1520 + 1840) - (1450 + 1620) = 3360 - 3070 = 290$

50.(3) Required ratio = $(1820 + 1840) : (1540 + 1480)$
 $= 3660 : 3020 = 183 : 151$

51.(1) {3}A 20
 {2}B 30 LCM = 60
 Time take to fill the tank $1/3^{\text{rd}}$ i.e. $\frac{60}{3} = 20$

$$\Rightarrow \frac{20}{3+2} = 4 \text{ hr.}$$

Efficiency of pipe after leak developed
 $= \frac{2}{3}(3+2) = \frac{10}{3}$

Time taken to fill the remaining $\frac{2}{3}$ rd of the tank
 $= \frac{40}{\frac{10}{3}} = 12 \text{ hr.}$

i.e. Total time taken to fill the tank
 $= 4 \text{ hr} + 12 \text{ hr} = 16 \text{ hrs.}$

52.(1) Let distance be x kmph and speed y kmph
 $\frac{x}{y} - \frac{x}{y+3} = \frac{40}{60} \dots(1)$

$$\frac{x}{y-2} - \frac{x}{y} = \frac{40}{60} \dots(2)$$

From Equation (1) and (2),
 $x = 40 \text{ km}$ and $y = 12 \text{ kmph.}$

53.(3) Let speed of train = x kmph
 And speed of car = y kmph
 $\frac{120}{x} + \frac{480}{y} = 8 \text{ hr.} \dots(1)$

$$\text{And } \frac{200}{x} + \frac{400}{y} = 8 \frac{1}{3} \text{ hr.} \dots(2)$$

From eq. (1) and (2), $\frac{x}{y} = \frac{3}{4}$

54.(5) The word BANANA contains 6 letter out of which A occurs thrice & N occurs twice.
 The three consonants B and N (Which occurs twice) can be arranged at the 3 even places 2, 4, & 6 i. e. $3!/2! = 3$ ways.
 The remaining 3 odd places can be arranged with triple A in $3!/3! = 1$ way.

Required No of words = $3 \times 1 = 3$.
 L : B = 7 : 5
 Breadth = $\frac{24.5}{7} \times 5 = 17.5 =$ Diameter of circle

$$\text{Radius of circle} = \frac{17.5}{2} = 8.75.$$

$$\text{Area of circle} = \frac{22}{7} \times 8.75 \times 8.75 = 240.625.$$

Area of shaded region
 $=$ Area of rectangle – Area of circle
 $= 17.5 \times 24.5 - 240.625 = 188.125.$

56.(2) Let initially total number of men was 'x' any 'y' no. of men reported.

$$\therefore y \times \left(\frac{480}{x} + 20 \right) = 480 \text{ Or } \frac{20}{480} = \frac{1}{y} - \frac{1}{x}$$

$$\therefore \frac{1}{y} - \frac{1}{x} = \frac{1}{24}$$

From option, only 12, 8 satisfies the above arrangement.
 Therefore total men initially = 12, total men reported = 8.

Current	A	B	C
After	2000	6000	10000
Ist	3000 + 5000 = 8000	1000 + 5000 = 6000	3000 + 1000 = 4000
Iind Year	3000 + 2000 = 5000	4000 + 2000 = 6000	4000 + 3000 = 5500
IIIrd Year	3000 + 3500 = 6500	2500 + 3500 = 6000	2500 + 3000 = 5500
Ivth year	3000 + 2750 = 5750	3250 + 6000 = 9250	3250 + 3000 = 6250

58.(2) Hence, population of part A = 5750.
 Initial cost = $C = 0.03 ABt^2$
 Amount after changes in price and time –

$$C^1 = 0.03 \times \frac{150}{100} A \times \frac{120}{100} B \times \left(\frac{70}{100} t \right)^2$$

$$C^1 = 0.882C$$

Therefore % decrease in cost

$$= \frac{C - C^1}{C} \times 100 = \frac{C - 0.882C}{C} \times 100 = 11.8\%$$

59.(3) Let total commodity be 'x'.

$$\therefore \left[\frac{x}{3} \times \frac{115}{100} + \frac{x}{4} \times \frac{120}{100} + \left(x - \frac{x}{3} - \frac{x}{4} \right) \times \frac{124}{100} \right] - x = 62$$

$$\Rightarrow \frac{23x}{60} + \frac{3x}{10} + \frac{31x}{60} - x = 62$$

$$\therefore x = 310$$

60.(4) Total No. of sheet of paper = $\frac{785.4}{46.2} = 17$

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Total Area of papered portion
 = $17 \times (13 \times 0.75) = 165.75$
 Since, $2 \times [7h + 5h] = 165.75$.
 Therefore $h = 6.91$ m.

61. (2) $?\ = \left(\frac{30 \times 560}{100} + \frac{53 \times 1100}{100} \right) \div 8$
 = $(168 + 583) \div 8$
 = $751 \div 8 = 94$

62. (2) $? \times 5 \times 5 - 13 \times 4 \times 4 = 117$
 $\Rightarrow 25 \times ? - 208 = 117$
 $\Rightarrow 25 \times ? = 208 + 117 = 325$
 $\Rightarrow ? = \frac{325}{25} = 13$

63. (3) $(9118 - 8022 + 904) \times 12 = 1500 \times ?$
 $\therefore ? = \frac{2000 \times 12}{1500} = 16$

64. (5) $\sqrt{?} + \sqrt{1229} \times 14 - 12 = 511$
 $\Rightarrow \sqrt{?} + 35 \times 14 - 12 = 511$
 $\Rightarrow \sqrt{?} + 490 - 12 = 511$
 $\Rightarrow \sqrt{?} = 511 - 478 = 33$
 $\Rightarrow ? = 33 \times 33 = 1089$

65. (3) $? = 1020 \times 5 + 237 - 302$
 = $5100 + 237 - 302 = 5035$

66. (4) $P \geq M = O \geq R < N \leq O$

Conclusions
 I. $P = R$: Not True
 II. $M \leq O$: Not True

67. (2) $P \geq Q > R < S$
 $M = N \leq P \geq Q \geq T$

Conclusions
 I. $S > P$: Not True
 II. $T \leq P$: True

68. (1) $D \leq P < Q \geq R > N = O$

Conclusions
 I. $Q > O$: True
 II. $O > D$: Not True

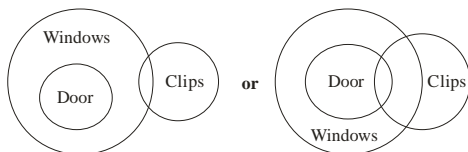
69. (2) $Z < T > U \geq V > W$
 $T > U \geq V > W > X$

Conclusions
 I. $Z > X$: Not True
 II. $U > X$: True

70. (5) $P = N > D \geq G < B = J$

Conclusions
 I. $P > G$: True
 II. $G < J$: True

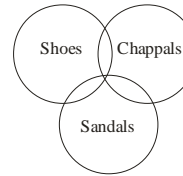
71. (5)



72. (4)

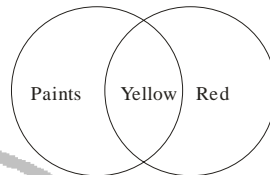


or

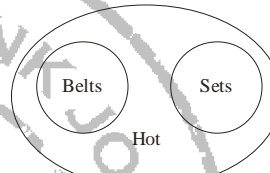


73. (2)

74. (5)



75. (4)



76-80.

Logic is:-
 In first step biggest letter is arranged from left hand side and in second step smallest number is arranged from left hand side and so on....

76. (2)

78. (2)

80. (1)

81. (5)

77. (2)
 79. (1)

From statement I
 B studies in 1st or 7th standard
 C studies in 4th or 8th standard

From statement II
 $C > B > A > \square$

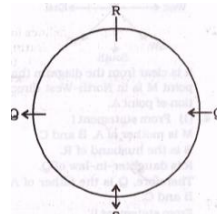


From both the statements

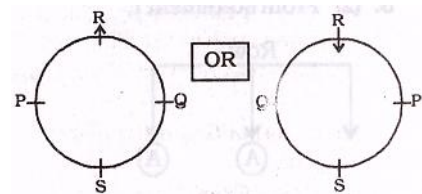
10 th	8 th	7 th	4 th	1 st
D/E	C	B	A	D/E

82. (4)

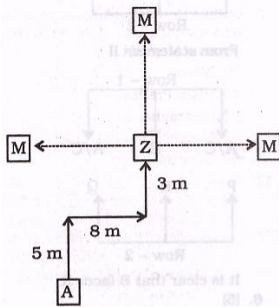
From statement I



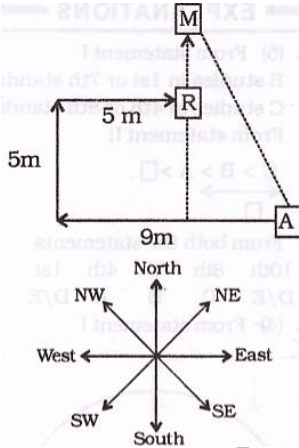
From Statement II



83. (2) From statement I



From statement II



It is clear from the diagram that point M is in North-West direction of point A.

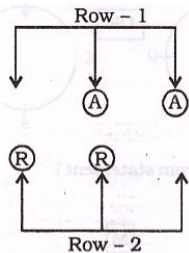
84. (1) From statement I

M is mother of A, B and C. B is the husband of R. R is daughter-in-law of Q. Therefore, Q is the father of A, B and C.

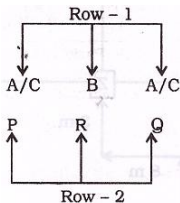
From statement II

A, B and C are children of M and Q

85. (2) From statement I,



From statement II



It is clear that B faces R

86-90.

Persons Name	City	Profession (Fields)
Samir	Delhi	Advertisement
Rajesh	Mumbai	Sales
Amit	Kolkata	Personal Management
Ravi	Bangalore	Computer
Avinash	Chennai	Finance

86. (2)

87. (1)

88. (5)

89. (1)

90. (3)

(41 – 45)

Day	Destination	Departure Time
Monday	Madrid	10 PM
Tuesday	Sydney	5 PM
Wednesday	Dubai	9 PM
Thursday	London	6 PM
Friday	Zurich	8 PM
Saturday	Rome	4 PM
Sunday	Paris	7 PM

91. (3)

92. (4)

93. (4)

94. (2)

95. (5)

96. (1)

97. (2)

98. (5)

99. (5)

100. (4)

None as Paris bound flight departs on Sunday.

Sydney bound flight departs at 5 PM.

Sydney bound flight departs at 5 PM.

London bound flight departs at 6 PM.

Dubai bound flight departs at 9 PM.

The flight would arrive in New Delhi at 11 PM.

Madrid bound flight departs at 10 PM.

Only assumption I is implicit in the statement. Vehicle is parked at a distance which is not far away from the destination.

Only assumption II is implicit in the statement. The use of term all in the assumption I makes it invalid.

Clearly both the assumptions are implicit in the statement.

It is mentioned in the statement that for any kind of problem. Contact help desk. It implies that help desk suggests solutions to all kinds of problems related to mobile phones. Therefore, both the assumptions are implicit in the statement.

None of the assumptions is implicit in the statement.