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## ≫ SBI Junior Associates (Prelims) Exam. Practice Set – Explanation ≪

(1-5):

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Year	Net Fixed Assets	Growth Rate	Net Current Assets		Inves- tment	Growth
2012	7	-	13	1	2	1
2013	8	14.28%	16	23.07%	1	-50%
2014	7.5	-6.25%	15	-6.25%	2	100%
2015	9	20%	17	13.33%	4	100%

Total Assets	Growth Rate
22	_
25	13.63%
24.5	-2%
30	22.44%

1. (b) From the table, we can see that the growth rate from 2012 to 2015

$$=\frac{(30-22)}{22}=36.36\% \approx 36\%$$

But this over a 3-year period.

- $\therefore$  Average annual growth rate  $=\frac{36}{3}=12\%$
- 2. (c) The lowest growth rate is of investment in 2013, ie 50% decrease.
- 3. (c) The highest growth rate was seen for Investment in 2014, ie 100% increase
- 4. (e) None.
- 5. (c) Total Assets in the year 2013 is ₹25 crore.

  Total Current Assets = 13 + 16 + 15 + 17

  = ₹61 crore

$$\therefore$$
 Reqd % =  $\frac{25}{61} \times 100 = 40.98 \approx 41\%$ 

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6. (b) 
$$? = \left(\frac{6}{4} \times \frac{32}{8} \times \frac{6}{16}\right) + \left(\frac{6}{16} \times \frac{24}{8} \times \frac{36}{4}\right) = \frac{9}{4} + \frac{81}{8} = \frac{99}{8}$$

7. (e) 
$$? = \frac{6160 + 12320}{660} = \frac{18480}{660} = 28$$

8. (d) 
$$? = \frac{46195.5}{1047 + 137.5}$$
  
or,  $? = \frac{46195.5}{1184.5} = 39$ 

9. (c) 
$$? = \frac{10 \times 10 \times 10}{4 + 4 + 4 + 4} = \frac{1000}{16} = 62.5$$

10. (e) 
$$? = \frac{6}{8} + \frac{10}{16} + \frac{26}{32} + \frac{6}{16} = \frac{24 + 20 + 26 + 12}{32}$$

$$=\frac{82}{32}=\frac{41}{16}$$

- 11. (b) The series is  $3 \times 1^2 + 2 = 5$ ,  $5 \times 2 + 3 = 13$ ,  $13 \times 3^2 + 4 = 121$ ,  $121 \times 4 + 5 = 489$ ,  $489 \times 5^2 + 6 = 12231$ , Therefore it should be 121 in the place of **120**.
- 12. (d) The series is  $520 + 11^2 = 641$ ,  $641 13^2 = 472$ ,  $472 + 15^2 = 697$ ,  $697 17^2 = 408$ ,  $408 + 19^2 = 769$ , ... Therefore it should be 697 is the place of **700**.
- 13. (c) The series is

14. (a) The series is

15. (e) The series is  $83 - (1^3 + 1) = 81$  $81 + (2^3 + 1) = 90, 90 - (3^3 + 1) = 62,$ 

 $62 + (4^3 + 1) = 127$ ,  $127 - (5^3 + 1) = 1$ ,... Therefore it should be 1 in the place of 10.

16. (e) **I.**  $x^2 + 3x + 2 = 0$ or,  $x^2 + 2x + x + 2 = 0$ or, x(x + 2) + 1(x + 2) = 0or, (x + 2)(x + 1) = 0 $\therefore x = -1, -2$ 

II. 
$$2y^2 - 5y = 0$$
  
or,  $y(2y - 5) = 0$   
 $\therefore y = 0, \frac{5}{2}$ 

Hence x < y

17. (e) I.  $x^2 + x = 56$ or,  $x^2 + x - 56 = 0$ or,  $x^2 + 8x - 7x - 56 = 0$ or, x(x + 8) - 7(x + 8) = 0or, (x + 8) (x - 7) = 0 $\therefore x = -8, 7$ 

Hence x < y

II. 
$$y^2 - 17y + 72 = 0$$
  
or,  $y^2 - 8y - 9y + 72 = 0$   
or,  $y(y - 8) - 9(y - 8) = 0$   
or,  $(y - 8) (y - 9) = 0$   
 $\therefore y = 8, 9$ 

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18. (c) I. 
$$x^2 + 2x - 8 = 0$$
  
or  $x^2 + 4x - 2x - 8 = 0$ 

or, 
$$x^2 + 4x - 2x - 8 = 0$$

or, 
$$x(x + 4) - 2(x + 4) = 0$$

or, 
$$(x + 4) (x - 2) = 0$$

$$\therefore$$
 x = 2, -4

II. 
$$y^2 = 7 + 2$$

or, 
$$y^2 = 9$$

$$\therefore$$
 y =  $\pm 3$ 

Hence, there is no relationship between x and y.

19. (b) **I.**  $2x^2 + 48 = 20x$ 

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or, 
$$2x^2 - 20x + 48 = 0$$

or, 
$$x^2 - 10x + 24 = 0$$

or, 
$$x^2 - 6x - 4x + 24 = 0$$

or, 
$$x(x - 6) - 4(x - 6) = 0$$

or, 
$$(x - 6)(x - 4) = 0$$

$$\therefore x = 6, 4$$

**II.** 
$$2y^2 + 14y + 24 = 0$$

or, 
$$y^2 + 7y + 12 = 0$$

or, 
$$y^2 + 4y + 3y + 12 = 0$$

or, 
$$y(y + 4) + 3(y + 4) = 0$$

or, 
$$(y + 4) (y + 3) = 0$$

$$\therefore$$
 y = -3, -4

Hence x > y20. (d) I.  $x^2 + x - 2 = 0$ **ख्या**ष्टिशंस

or, 
$$x^2 + 2x - x - 2 = 0$$

or, 
$$x(x + 2) - 1(x + 2) = 0$$

or, 
$$(x +2)(x - 1) = 0$$

$$\therefore$$
 x = 1, -2

**II.** 
$$y^2 + 7y + 10 = 0$$

or, 
$$y^2 + 5y + 2y + 10 = 0$$

or, 
$$y(y + 5) + 2(y + 5) = 0$$

or, 
$$(y + 5) (y + 2) = 0$$

$$\therefore$$
 y = -2, -5

Hence  $x \ge y$ 

21. (a) Volume of cone = Volume of cylinder

or, 
$$\frac{1}{3}\pi r^2 h = \pi R^2 H$$



or, 
$$\frac{1}{3} \times \frac{3}{2} \times \frac{3}{2} \times h = 2 \times 2 \times 9$$

$$h = \frac{144}{3} = 48 \text{ m}$$

22. (d) Let one man's 1 day's work be m and 1 woman's one day's work be w.

$$\therefore 5m + 7w = \frac{1}{10} \dots (i)$$

$$20m + 42w = \frac{1}{2}$$
 ... (ii)

On solving equation (i) and (ii), we get

$$\therefore$$
 m =  $\frac{1}{100}$  and w =  $\frac{1}{140}$ 

So, the work will be completed by 10 men and 15 women in

$$1 \div \left(10 \times \frac{1}{100} + 15 \times \frac{1}{140}\right) = 1 \div \left(\frac{1}{10} + \frac{3}{28}\right)$$

$$=1 \div \left(\frac{14+15}{140}\right) = 1 \div \left(\frac{29}{140}\right) = \frac{140}{29} = 4\frac{24}{29}$$
 days

23. (c) Let the speed of the car from Patna be x and the speed of the car from Gaya be y.

Then, 
$$\frac{110}{x + y} = 1$$

So, 
$$x + y = 110...$$
 (i)



And, 
$$\frac{110}{x - y} = 11$$

$$x - y = 10...$$
 (ii)

From equation (i) and (ii), we get

$$x + y = 110$$

$$x - y = 10$$

$$2x = 120$$

 $\therefore$  x = 60 kmph

Putting the value of x in (i), we get

$$\therefore$$
 y = 50 kmph

So, the speed of car from Gaya = 50 kmph

24. (b) Let the number of girls be x.

So, the number of boys = 500 - x.

According to the question,

$$24(500-x)+21x = 22\frac{3}{12} \times 500...(i)$$

On solving (i), we get

$$\therefore x = \frac{835}{5} = 291.667 \approx 292 \text{ girls}$$

25. (a) Let the investment of Sanchit be  $\mathbf{\xi} \mathbf{x}$ , that the Nivesh be ₹y and that of Keshav be ₹z respectively.

Then, 12x : 9y : 6z = 7 : 8 : 9

or, 
$$\frac{12x}{9y} = \frac{7}{8}$$

$$\therefore 32x = 21y \quad \therefore x = \frac{21}{32}y$$



And 
$$\frac{9y}{6z} = \frac{8}{9}$$

$$\therefore 27y = 16z \quad \therefore z = \frac{27}{16}y$$

So, 
$$x : y : z = \frac{21}{32}y : y : \frac{27}{16}y = 21 : 32 : 54$$

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- 26. (b)  $\operatorname{Zee}_{\text{Male}} = 84000 \times \frac{18}{100} \times \frac{7}{18} = 5880$
- 27. (c) Reqd difference

$$=$$
  $\left(84000 \times \frac{24}{100}\right) \times \left(\frac{13-11}{24}\right) = 1680$ 

28. (a) 
$$\operatorname{Zee}_{F} = \left[ 84000 \times \frac{18}{100} \right] \times \frac{11}{18} = 9240$$

.. Total number of viewers of all channels together = 84000

$$\therefore \text{ Reqd } \% = \frac{9240 \times 100}{84000} = 11\%$$

29. (e) Total number of viewers of Star Plus

$$=84000 \times \frac{17}{100} = 14280$$



:. Star Plus<sub>Male</sub> = 
$$14280 \times \frac{9}{17} = 7560$$

Now, total number of viewers of Sahara

$$= 84000 \times \frac{10}{100} = 8400$$

$$\therefore$$
 Reqd % =  $\frac{7560}{8400} \times 100 = \frac{7560}{84} = 90\%$ 

30. (b) Male<sub>Total</sub> =  $\frac{84000}{100} \times \left(12 \times \frac{8}{21} + 18 \times \frac{7}{18} + 19 \times \frac{5}{12}\right)$ 

$$+17 \times \frac{9}{17} + 10 \times \frac{3}{10} + 24 \times \frac{11}{24}$$



$$=840 \times \left(\frac{32}{7} + 7 + \frac{95}{12} + 9 + 3 + 11\right)$$

=3840+5880+6650+7560+2520+9240= 35690

Total number of females = 84000 - 35690= 48310

$$\therefore$$
 Difference =  $48310 - 35690 = 12620$ 

31. (b) The series is  $\frac{-12288}{4} = 3072, \frac{3072}{4} = -768,$ 

$$\frac{-768}{-4} =$$
**192**,  $\frac{192}{-4} = -48$ 



- **4**,  $4 \times 4 = 16$ ,  $16 \times 4$ 32. (c)  $16 = 256, 256 \times 256 = 65536$
- 33. (d) The series is  $4 \times 3 = 12$ ,  $12 \times 3 = 36$ , 36  $\times$  3 = 108, 108  $\times$  3 = 324, 324  $\times$  3 = **972**...
- 34. (d) The series is 5 + 7 = 12, 7 + 12 = 19, 12 + 19 = 31, 19 + 31 = 50...
- 35. (b) The series is  $(+2)^3$ ,  $(+3)^3$ ,  $(+5)^3$ ,  $(+6)^3$ ,  $(+7)^3$ ,  $(+8)^3$  ...

(36-40):

Order of item	Item	Children
1	Prayers	U
2	Thoughts	T
3	Pledge	P
	Interval	Inverval
4	Drama	R
5	Speech	S
6	Newsreading	Q

- 36. (a) 37. (d) 38. (c) 39. (b) 40. (c)
- Sixth to the right of thirteenth from the right 41. (a) end is (13 - 6 =) 7th from right, ie D.
- 42. (b) number symbol vowel ie 8#E. Thus, there is only one such symbol.
- 43. (c) number consonant vowel/number/symbol ie 3P@, 9B%, 1O© Thus, there are only three such consonants.
- 44. (c) symbol number ie %3, @2, %1



Thus there are only three such numbers.

45. (c) Each element of the groups moves two places forward from the previous element. The last element of each group moves two places forward to become the first element of the next group.

46. (a) Given statement:



$$\begin{array}{c|c} W > D \\ \hline \\ W \geq O > N = D \leq E = R \\ \hline \\ N \leq R \end{array}$$

Thus, W > D is true. But conclusion II (R > N) is not true.

47. (b) Given statements:

$$P \leq Q = T \geq N ... (i)$$

 $V < S \le P \dots (ii)$ 

Combining both the statements, we get  $V < S \le P \le Q = T \ge N$ 

Thus,  $N \ge S$  is not true. But  $S \le T$  is true.

48. (e) Given statements:

$$L = M \ge S > G ... (i)$$



 $H \leq K = G \dots (ii)$ 

Combining both the statements, we get

 $L = M \ge S > G = K \ge H$ 



Thus, L > K is true. Again S > H is also true.

49. (c) Given statements:

$$R \le I \le T = Q < P = N$$

$$R \le Q$$

 $R \le Q$  means R < Q or R = Q

Hence either conclusion I or II is true.

50. (d) Given statements:

$$C \ge D < B = E \dots (i)$$



D < J = P ... (ii)

Combining both the statements, we get P = J > D < B = E

Again,  $C \ge D < J = P$ 

Thus,  $C \ge P$  is not true.



Again, J < E is not true.

51. (a) Some tablets are medicines (I) + No medicine is a capsule (E) = I + E = O = Some tablets are not capsules.

Hence conclusion I follows.

Again, No medicine is a capsule (E)  $\rightarrow$  conversion  $\rightarrow$  No capsule is a medicine (E). Hence conclusion II does not follow.

- 52. (b) No fox is a tiger (E) + (No lion is a tiger (E) → conversion →) No tiger is a lion (E) = E + E = No conclusion. Hence conclusion I does not follow. But conclusion II follows.
- 53. (d) All floors are houses (A) + Some houses are buildings (I) = A + I = No conclusions. Hence conclusion I does not follow.

  Some houses are buildings (I) + No building is an office (E) = I + E = O = Some houses are not offices. Hence conclusion II does not follow.
- 54. (e) There is no negative statement between the first and the second statement. Thus the possibility in I exists. Hence conclusion I follows.

Again, Some houses are buildings (I) + No building is an office (E) = I + E = O = Some houses are not offices, but the possibility in II exists. Hence conclusion II follows.

55. (b) All cars are buses (A) + (No train is a bus (E)  $\rightarrow$  conversion  $\rightarrow$ ) No bus is a train (E) = A + E = E = No car is a train.

Again, No car is a train  $(E) \rightarrow$  conversion  $\rightarrow$  No train is a car. Hence conclusion II follows, but conclusion I does not follow.

(56-57): F(+)  $\downarrow$   $C(+) \iff A(-) \longrightarrow D(+)$   $\downarrow$   $E(+) \longrightarrow B(-)$ 

56. (b)

57. (d)

(58-60): need for insurance index → na pt ch kl ... (i) insurance index in india → kl sa zo pt ...(ii) india need insurance parameter → ch zo pt me ... (iii)

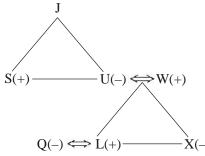
From (i), (ii) and (iii), insurance  $\rightarrow$  pt ... (iv) From (i), (iv) and (ii), index  $\rightarrow$  kl ... (v) From (i), (iv) and (iii), need  $\rightarrow$  ch ... (vi) From (i), (iv), (v) and (vi), for  $\rightarrow$  na ... (vii) From (ii), (iv) and (iii), india  $\rightarrow$  zo ... (viii) From (ii), (iv), (v) and (viii), in  $\rightarrow$  sa ... (ix) From (iii), (iv), (vi) and (viii), parameter

 $\rightarrow$  me ... (x)

58. (b) 59. (b) 60. (a)



(61-65):



61. (d) 62. (a) 63 (b) 64. (d) 65 (b)

66. (c) N(+)





Hence, R is either brother or sister of S.

67. (a) V(-)  $\downarrow$  W(+) - M(+)  $\downarrow$  Y(-) - S



Hence, V is grandmother of Y.

68. (d) N(+)
|
O(-)
|
T(+) --- L

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We don't know the gender of L.

69. (b) 684 512 437 385 296 +2+2+2+2+2884 712 637 585 496

Now, only 585 is divisible by 3.

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- 70. (c) 684 512 437 385 296 864 521 743 853 **962** Hence, 296 becomes the highest number after arrangement.
- 71. (d) It is **Preposition** related error.

## Look at the sentence:

• I can't easily give an **answer to** the question.

Hence, answers/solutions to it is the right usage.

- 72. (c) Here, **straight in** is the right usage.
- 73. (b) Here, in the afternoon is the right usage.
- 74. (d) for good: permanently
  - This time she's leaving for good.

The best option is permanently

- 75. (b) **black sheep:** a person who is considered bad or embarrassing.
  - He is the **black sheep** of the family. The best option is **person with bad reputation**
- 76. (d) a red letter day: an important day.
  - Independence Day is a red letter day in Indian History.

The best option is an important day

- 77. (b) to draw the line: to set a limit.
  - We would have liked to invite all our relatives, but you have to draw the line somewhere.

The best option is fix a limit.

78. (b) controversial

**contentious** (Adj.) : controversial; likely to cause disagreement.

79. (c) shameless

brazen (Adj.): shameless; open and without shame.

80. (c) **summary** 

**synopsis** (N.): a summary of a piece of writing, a play etc.

81. (a) atheist

**atheist** (N.): someone who does not believe in the existence of God

**theist** (N.): one who believes in the existence of God/gods

**mystic** (N.): someone who believes in the existence of realities beyond human comprehension (understanding)

cynic (N.): someone who is critical of the motives of others

82. (a) arsonist

arsonist (N.): a criminal who illegally sets fire to property

**extortionist** (N.): a person who practises the crime of obtaining money by threat of violence

**hijacker** (N.): a person who uses force to take over a vehicle (aeroplane) in order to reach another destination

**assassin** (N.): a person who murders somebody important or famous, for money or for political reasons

83. (b) archaeology

**archaeology (Noun):** the study of human history and prehistory, the excavation of sites and the analysis of artifacts and other physical remains

**physiology (Noun) :** the scientific study of the normal functions of living things

ethonology (Noun): the scientific study and comparison of human races

zoology (Noun): the branch of biology that studies animals

84. (c) fugitive

**fugitive (Noun):** a person who has escaped/ is running away from some where and is trying to avoid being caught

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- 85. (c) RSQP
- 86. (d) QPSR
- 87. (a) RPQS
- 88. (d) OSRP
- 89. (a) RQPS
- 90. (a) The correctly spelt word is **grammatic**
- 91. (a) The correctly spelt word is **rumble**The correct spellings of the other words are **stumble**, **jumble**, **triple**
- 92. (a) The correctly spelt word is separate
- 93. (d) inexpressible

ineffable (Adj.): too good or beautiful to describe in words; unutterable; indescribable. unintelligible (Adj.): not clearly understood/expressed illegible (Adj.): not able to read (handwriting)

inexplicable (Adj.): incapable of being explained/accounted for



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inexpressible (Adj.): to strong to be put into words

94. (b) **spying** 

**espionage (N.):** the activity of secretly getting important political or military information; spying.

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**perception** (N.): becoming aware of something via the senses

**detente (N.):** the easing of tensions/strained relations (between nations)

95. (b) indifference

**apathy (N.)**: lack of interest, enthusiasm or concern; indifference; impassivity.

96. (d) Because of lack of self-discipline

97. (a) By taking risks

98. (c) It helps us to learn

76. (c) it lietps us to leath

99. (a) By taking a short holiday

100.(b) One has to work hard and learn at least from failures.