$9_{0}$ SBI Junior Associates (Prelims) Exam. Practice Set - Explanation $\sim$
(1-5):

| Year | Net <br> Fixed <br> Assets | Growth <br> Rate | Net <br> Current <br> Assets | Growth <br> Rate | Inves- <br> tment | Growth |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| 2012 | 7 | - | 13 | - | 2 | - |
| 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

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

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$\therefore$ Reqd $\%=\frac{25}{61} \times 100=40.98 \approx 41 \%$
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) $?=\frac{46195.5}{1047+137.5}$

$$
\text { or, } ?=\frac{46195.5}{1184.5}=39
$$

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 $\mathbf{1 2 0}$.
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
 Therefore it should be 864 in place of $\mathbf{8 6 5}$.
14. (a) The series is


Therefore, it should be 864 in the place of 1152 .
15. (e) The series is $83-\left(1^{3}+1\right)=81$
$81+\left(2^{3}+1\right)=90,90-\left(3^{3}+1\right)=62$, $62+\left(4^{3}+1\right)=127,127-\left(5^{3}+1\right)=1, \ldots$
Therefore it should be 1 in the place of 10 .
16. (e) I. $x^{2}+3 x+2=0$
or, $x^{2}+2 x+x+2=0$
or, $x(x+2)+1(x+2)=0$
or, $(x+2)(x+1)=0$
$\therefore \mathrm{x}=-1,-2$
II. $2 y^{2}-5 y=0$

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or, $y(2 y-5)=0$
$\therefore \mathrm{y}=0, \frac{5}{2}$
Hence $x<y$
17. (e) I. $x^{2}+x=56$
or, $x^{2}+x-56=0$
or, $x^{2}+8 x-7 x-56=0$
or, $x(x+8)-7(x+8)=0$
or, $(x+8)(x-7)=0$
$\therefore \mathrm{x}=-8,7$
II. $y^{2}-17 y+72=0$
or, $y^{2}-8 y-9 y+72=0$
or, $\mathrm{y}(\mathrm{y}-8)-9(\mathrm{y}-8)=0$
or, $(y-8)(y-9)=0$
$\therefore y=8,9$
Hence $\mathrm{x}<\mathrm{y}$
18. (c) I. $x^{2}+2 x-8=0$

or, $x^{2}+4 x-2 x-8=0$
or, $x(x+4)-2(x+4)=0$
or, $(x+4)(x-2)=0$
$\therefore x=2,-4$
II. $y^{2}=7+2$
or, $y^{2}=9$
$\therefore \mathrm{y}= \pm 3$
Hence, there is no relationship between $x$ and $y$.
19. (b) I. $2 x^{2}+48=20 \mathrm{x}$

or, $2 x^{2}-20 x+48=0$
or, $x^{2}-10 x+24=0$
or, $x^{2}-6 x-4 x+24=0$
or, $x(x-6)-4(x-6)=0$
or, $(x-6)(x-4)=0$
$\therefore x=6,4$
II. $2 y^{2}+14 y+24=0$
or, $\mathrm{y}^{2}+7 \mathrm{y}+12=0$
or, $y^{2}+4 y+3 y+12=0$
or, $y(y+4)+3(y+4)=0$
or, $(y+4)(y+3)=0$
$\therefore y=-3,-4$
Hence $x>y$
20. (d)
I. $x^{2}+x-2=0$

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or, $x^{2}+2 x-x-2=0$
or, $x(x+2)-1(x+2)=0$
or, $(x+2)(x-1)=0$
$\therefore \mathrm{x}=1,-2$
II. $\mathrm{y}^{2}+7 \mathrm{y}+10=0$
or, $y^{2}+5 y+2 y+10=0$
or, $y(y+5)+2(y+5)=0$
or, $(y+5)(y+2)=0$
$\therefore y=-2,-5$
Hence $x \geq y$
21. (a) Volume of cone $=$ Volume of cylinder
or, $\frac{1}{3} \pi r^{2} h=\pi \mathrm{R}^{2} \mathrm{H}$
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or, $\frac{1}{3} \times \frac{3}{2} \times \frac{3}{2} \times \mathrm{h}=2 \times 2 \times 9$
$\therefore \mathrm{h}=\frac{144}{3}=48 \mathrm{~m}$
22. (d) Let one man's 1 day's work be $m$ and 1 woman's one day's work be w.
$\therefore 5 \mathrm{~m}+7 \mathrm{w}=\frac{1}{10} \ldots$ (i)
$20 \mathrm{~m}+42 \mathrm{w}=\frac{1}{2}$.
On solving equation (i) and (ii), we get
$\therefore \mathrm{m}=\frac{1}{100}$ and $\mathrm{w}=\frac{1}{140}$


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, $x+y=110 \ldots$ (i)
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And, $\frac{110}{x-y}=11$
$\therefore \mathrm{x}-\mathrm{y}=10$... (ii)
From equation (i) and (ii), we get
$x+y=110$
$x-y=10$
$2 x=120$
$\therefore \mathrm{x}=60 \mathrm{kmph}$
Putting the value of $x$ in (i), we get
$\therefore \mathrm{y}=50 \mathrm{kmph}$
So, the speed of car from Gaya $=50 \mathrm{kmph}$
24. (b) Let the number of girls be $x$.

So, the number of boys $=500-\mathrm{x}$.
According to the question,
$24(500-x)+21 x=22 \frac{3}{12} \times 500 \ldots$
On solving (i), we get
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$\therefore \mathrm{x}=\frac{835}{5}=291.667 \approx 292$ girls
25. (a) Let the investment of Sanchit be ₹ $x$, that the Nivesh be ₹ $y$ and that of Keshav be ₹ $z$ respectively.
Then, 12x : 9y : $6 \mathrm{z}=7: 8: 9$
or, $\frac{12 \mathrm{x}}{9 \mathrm{y}}=\frac{7}{8}$
$\therefore 32 \mathrm{x}=21 \mathrm{y} \quad \therefore \mathrm{x}=\frac{21}{32} \mathrm{y}$


And $\frac{9 y}{6 z}=\frac{8}{9}$
$\therefore 27 \mathrm{y}=16 \mathrm{z} \quad \therefore \mathrm{z}=\frac{27}{16} \mathrm{y}$
So, $x: y: z=\frac{21}{32} y: y: \frac{27}{16} y=21: 32: 54$
26. (b) $\mathrm{Zee}_{\text {Male }}=\left[84000 \times \frac{18}{100}\right] \times \frac{7}{18}=5880$
27. (c) Reqd difference

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$=\left(84000 \times \frac{24}{100}\right) \times\left(\frac{13-11}{24}\right)=1680$
28. (a) $\mathrm{Zee}_{\mathrm{F}}=\left[84000 \times \frac{18}{100}\right] \times \frac{11}{18}=9240$
$\therefore$ Total number of viewers of all channels together $=84000$
$\therefore$ Reqd $\%=\frac{9240 \times 100}{84000}=11 \%$
29. (e) Total number of viewers of Star Plus
$=84000 \times \frac{17}{100}=14280$
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$\therefore$ Star Plus ${ }_{\text {Male }}=14280 \times \frac{9}{17}=7560$
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 $_{\text {Total }}=\frac{84000}{100} \times\left(12 \times \frac{8}{21}+18 \times \frac{7}{18}+19 \times \frac{5}{12}\right.$
$\left.+17 \times \frac{9}{17}+10 \times \frac{3}{10}+24 \times \frac{11}{24}\right)$

$=840 \times\left(\frac{32}{7}+7+\frac{95}{12}+9+3+11\right)$
$=3840+5880+6650+7560+2520+9240$
$=35690$
Total number of females $=84000-35690$
$=48310$
$\therefore$ Difference $=48310-35690=12620$
31. (b) The series is $\frac{-12288}{-4}=3072, \frac{3072}{-4}=-768$,
$\frac{-768}{-4}=\mathbf{1 9 2}, \frac{192}{-4}=-48$
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32. (c) $16=256,256 \times 256=65536$
33. (d) The series is $4 \times 3=12,12 \times 3=36,36$ $\times 3=108,108 \times 3=324,324 \times 3=972 \ldots$
34. (d) The series is $5+7=12,7+12=19,12$ $+19=31,19+31=50 \ldots$
35. (b) The series is $(+2)^{3},(+3)^{3},(+5)^{3},(+6)^{3},(+7)^{3}$, $(+8)^{3} \ldots$
(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)
37. (a) Sixth to the right of thirteenth from the right end is $(13-6=) 7$ th from right, ie $D$.
38. (b) number symbol vowel

खुाइिएय ie $8 \# \mathrm{E}$. Thus, there is only one such symbol.
43. (c) number consonant vowel/number/symbol ie $3 \mathrm{P} @, 9 \mathrm{~B} \%$, 1Q®
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:

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Thus, W > D is true. But conclusion II $(\mathrm{R}>\mathrm{N})$ is not true.
47. (b) Given statements:
$\mathrm{P} \leq \mathrm{Q}=\mathrm{T} \geq \mathrm{N}$
$\mathrm{V}<\mathrm{S} \leq \mathrm{P}$... (ii)
Combining both the statements, we get
$\mathrm{V}<\mathrm{S} \leq \mathrm{P} \leq \mathrm{Q}=\mathrm{T} \geq \mathrm{N}$
Thus, $\mathrm{N} \geq \mathrm{S}$ is not true. But $\mathrm{S} \leq \mathrm{T}$ is true.
48. (e) Given statements:
$\mathrm{L}=\mathrm{M} \geq \mathrm{S}>\mathrm{G} \ldots$... (i)
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$\mathrm{H} \leq \mathrm{K}=\mathrm{G}$... (ii)
Combining both the statements, we get
$\mathrm{L}=\mathrm{M} \geq \mathrm{S}>\mathrm{G}=\mathrm{K} \geq \mathrm{H}$

Thus, $\mathrm{L}>\mathrm{K}$ is true. Again $\mathrm{S}>\mathrm{H}$ is also true.
49. (c) Given statements:

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$\mathrm{R} \leq \mathrm{Q}$ means $\mathrm{R}<\mathrm{Q}$ or $\mathrm{R}=\mathrm{Q}$
Hence either conclusion I or II is true.
50. (d) Given statements:
$\mathrm{C} \geq \mathrm{D}<\mathrm{B}=\mathrm{E} \ldots$ (i)

$\mathrm{D}<\mathrm{J}=\mathrm{P} .$. (ii)
Combining both the statements, we get
$\mathrm{P}=\mathrm{J}>\mathrm{D}<\mathrm{B}=\mathrm{E}$
Again, $\mathrm{C} \geq \mathrm{D}<\mathrm{J}=\mathrm{P}$
Thus, $\mathrm{C} \geq \mathrm{P}$ is not true.


Again, $\mathrm{J}<\mathrm{E}$ is not true
51. (a) Some tablets are medicines (I) + No medicine is a capsule $(\mathrm{E})=\mathrm{I}+\mathrm{E}=\mathrm{O}=$ 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) $\rightarrow$ conversion $\rightarrow$ ) No tiger is a lion $(\mathrm{E})=$ $\mathrm{E}+\mathrm{E}=$ No conclusion. Hence conclusion I does not follow. But conclusion II follows.
53. (d) All floors are houses (A) + Some houses are buildings ( I ) $=\mathrm{A}+\mathrm{I}=$ No conclusions. Hence conclusion I does not follow.
Some houses are buildings (I) + No building is an office $(\mathrm{E})=\mathrm{I}+\mathrm{E}=\mathrm{O}=$ Some houses are not offices. Hence conclusion II does not follow.

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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 ) $=\mathrm{I}+\mathrm{E}=\mathrm{O}=$ 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) $=\mathrm{A}+\mathrm{E}=\mathrm{E}=$ 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):


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56. (b)
57. (d)
(58-60): need for insurance index $\rightarrow$ na pt ch $\mathrm{kl} \ldots$... (i) insurance index in india $\rightarrow \mathrm{kl}$ sa zo pt ...(ii)
india need insurance parameter $\rightarrow$ ch zo pt
me ... (iii)
From (i), (ii) and (iii), insurance $\rightarrow$ pt ... (iv)
From (i), (iv) and (ii), index $\rightarrow \mathrm{kl} \ldots$ (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)

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(61-65):

61. (d) 62. (a) 63 (b) 64. (d) 65 (b)
66. (c) $\mathrm{N}(+)$


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Hence, R is either brother or sister of S .
67. (a) $\mathrm{V}(-)$


Hence, V is grandmother of Y.
68. (d)


69. (b) | We don't know the gender of L. |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | 684 | 512 | 437 | 385 | 296 |
| $\frac{+2}{884}$ | $\frac{+2}{712}$ | $\frac{+2}{637}$ | $\frac{+2}{585}$ | $\frac{+2}{496}$ |  |

Now, only 585 is divisible by 3 . खुण्িिएস
70. (c) $684 \quad 512 \quad 437 \quad 385 \quad 296$
$864 \quad 521 \quad 743 \quad 853 \quad 962$
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.

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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.

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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
$\operatorname{assassin}(\mathbf{N}$.$) : a person who murders$ 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

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fugitive (Noun) : a person who has escaped/ is running away from some where and is trying to avoid being caught
85. (c) RSQP
86. (d) QPSR
87. (a) RPQS

88. (d) QSRP
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
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.
hypnotism (N.) : the practice of putting a person into an unconscious state 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
99. (a) By taking a short holiday
100.(b) One has to work hard and learn at least from failures.

