

## SBI Preliminary Model Paper 6

### Quantitative Aptitude

**Directions (Q. 1-10):** What should come in place of the question mark (?) in the following questions?

1.  $(6)^3 \times (9)^2 \div 18 = ?$   
 a) 1458      b) 972      c) 8748      d) 162      e) None of these
2.  $\sqrt[3]{941192} = ?$   
 a) 101      b) 98      c) 96      d) 99      e) None of these
3.  $999 \times 99 \times 9 = ?$   
 a) 891009      b) 890019      c) 890190      d) 890109      e) None of these
4.  $7410 + ? \div 3652 \times 1479 = 11820$   
 a) 9451      b) 9527      c) 9441      d) 9541      e) None of these
5.  $32\% \text{ of } 860 \times ? = 61920$   
 a) 252      b) 255      c) 215      d) 205      e) None of these
6.  $963 \times 874 = ?$   
 a) 840788      b) 843588      c) 839736      d) 842536      e) None of these
7.  $\sqrt{12544} \div 64 \times ? = 43.75$   
 a) 30      b) 15      c) 25      d) 40      e) None of these
8.  $444 \div (16 \times 1.5) = ?$   
 a) 41.625      b) 222      c) 18.5      d) 185      e) None of these
9.  $(16)^9 \div (16)^4 \times (16)^3 = (16)^?$   
 a) 6.75      b) 8      c) 10      d) 12      e) None of these
10.  $0.08 \times ? \times 2.5 = 1.12$   
 a) 6.5      b) 6.6      c) 5.5      d) 5.6      e) None of these
11. The population of a town is 198000. It increases by 7% in the 1<sup>st</sup> year and decreases by 5% in the 2<sup>nd</sup> year. What is the population of the town at the end of 2 years? What is the population of the town at the end of 2 years?  
 a) 211860      b) 201267      c) 222453      d) 198900      e) None of these
12. What should come in place of the question mark (?) in the following number series?  
 3 7 13 ? 31 43  
 a) 18      b) 19      c) 23      d) 21      e) None of these
13. If  $x + y = 20$  and  $xy = 84$ ; what is the value of  $x^2 + y^2$ ?  
 a) 232      b) 400      c) 128      d) Cannot be determined      e) None of these
14. In how many different ways can the letters of the word 'ABILITY' be arranged?  
 a) 5040      b) 720      c) 1260      d) 2420      e) None of these
15. The difference between a two digit number and the number obtained by interchanging two digits of the number is 9. The sum of the two digits of the number is 15. What is the product of two digits of two digit number?  
 a) 54      b) 72      c) 56      d) Can't be determined      e) None of these

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**SBI Preliminary Model Paper 6**

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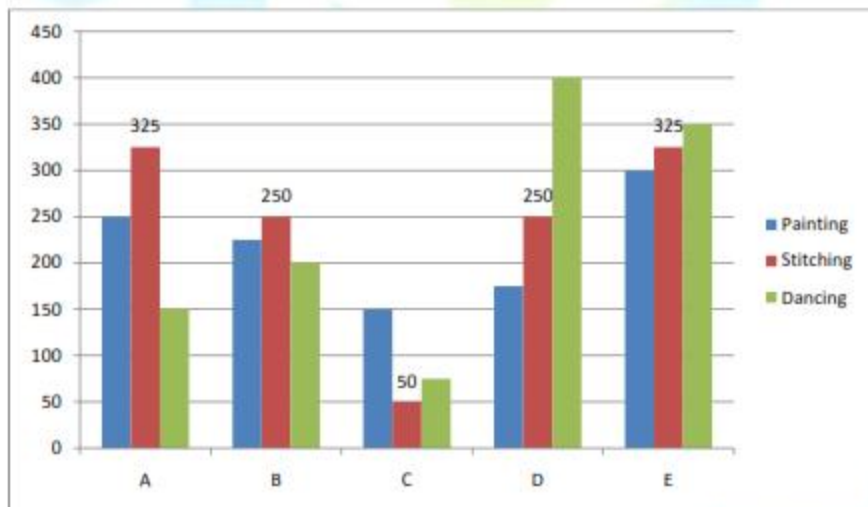
16. Vinita bought a watch with 24% discount on the selling price. If the watch cost her Rs.779. What is the original selling price of the watch?  
a) Rs.1000    b) Rs.950    c) Rs.1040    d) Can't be determined    e) None of these
17. Shyam invests an amount of Rs.5690 at the rate of 5% per annum for 3 years. What approximate amount of compound interest will be obtain at the end of 3 years?  
a) Rs.854    b) Rs.799    c) Rs.843    d) Rs.787    e) Rs.897
18. Samantha, Jessica and Roseline begin to job around a circular stadium. They complete their revolutions in 84 s, 56 s and 63 s respectively. After how many seconds will they be together at the starting point?  
a) 336    b) 504    c) 252    d) Can't be determined    e) None of these
19. Asmita invests an amount of Rs.9535 at the rate of 4% per annum to obtain a total amount of Rs.11442 on simple interest after a certain period. For how many years did she invest the amount to obtain the total sum?  
a) 10 years    b) 2 years    c) 5 years    d) 4 years    e) None of these
20. The cost of 13 kg of sugar is Rs.195. The cost of 17 kg of rice is Rs.544 and the cost of 21 kg of wheat is Rs.336. What is the total cost of 21 kg of sugar, 26 kg of rice and 19 kg of wheat?  
a) Rs.1461    b) Rs.1306    c) Rs.1500    d) Rs.1636    e) None of these
21. What approximate value should come in place of the question mark (?) in the following question?  
 $\sqrt{876} \times 20.6 + 165.34 = ?$   
a) 700    b) 686    c) 775    d) 846    e) 745
22. The product of two consecutive even numbers is 16128. Which is the larger number?  
a) 132    b) 128    c) 124    d) 126    e) None of these
23. A sum of money is to be divided equally amongst A, B and C in the respective ratio of 3 : 4 : 5 and another sum of money is to be divided between E and F equally. If F got Rs.1050 less than A, how much amount did B receive?  
a) Rs.750    b) Rs.2000    c) Rs.1500  
d) Can't be determined    e) None of these
24. Find the average of the following sets of scores.  
178, 863, 441, 626, 205, 349, 462, 820  
a) 505    b) 441    c) 349    d) 493    e) None of these
25. The difference between 38% of a number and 24% of the same number is 135.10. What is 40% of that number?  
a) 394    b) 370    c) 378    d) 386    e) None of these
26. 16 men can complete a piece of work in 8 days. In how many days can 12 men complete the same piece of work?  
a) 10    b) 9-1/3    c) 10-2/3    d) Can't be determined    e) None of these
27. Kishan has some hens and some cows. If the total number of animal heads are 59 and the total number of feet are 190. How many cows does Kishan have?  
a) 36    b) 32    c) 23    d) Can't be determined    e) None of these
28. If the numerator of a fraction is increased by 200% and the denominator is increased by 160%, the resultant fraction is 7/13. What is the original fraction?
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## SBI Preliminary Model Paper 6

- a) 7/15      b) 2/15      c) 8/15      d) 5/7      e) None of these
29. If  $41^2$  is added to the square of a number the answer, so obtained is 7457. What is the number?  
a) 76      b) 63      c) 81      d) 82      e) None of these
30. What is the least number to be added to 4700 to make it a perfect square?  
a) 74      b) 69      c) 76      d) 61      e) None of these

**Directions (Q. 31-35):** Study the graph carefully to answer the questions that follow:

**Number of girls enrolled in different hobby classes in various institutes in a year**



31. What is the respective ratio of total number of girls enrolled in Painting in the Institutes A and C together to those enrolled in Stitching in the Institutes D and E together?  
a) 5 : 4      b) 5 : 7      c) 16 : 23      d) 9 : 8      e) None of these
32. Number of girls enrolled in Stitching in Institute B forms approximately, what percent of the total number of girls enrolled in Stitching in all the Institutes together?  
a) 29      b) 21      c) 33      d) 37      e) 45
33. What is the respective ratio of total number of girls enrolled in Painting, Stitching and Dancing from all the Institutes together?  
a) 44 : 48 : 47      b) 43 : 47 : 48      c) 44 : 47 : 48      d) 47 : 48 : 44      e) None of these
34. Number of girls enrolled in Dancing in Institute A forms, what percent of total number of girls enrolled in all the hobby classes together in that institute? (Rounded off to two digits after decimal)  
a) 23.87      b) 17.76      c) 31.23      d) 33.97      e) 20.69
35. What is the total number of girls enrolled in Painting from all the institutes together?  
a) 1150      b) 1200      c) 1275      d) 1100      e) None of these

## SBI Preliminary Model Paper 6

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### Reasoning Ability

36. If CGKQW is one sequence following a logic and another five letter sequence following similar type of logic is BFJPV, then one more variation of this type can be  
 a) CFKNT                      b) DHLRX                      c) VPJFB  
 d) Can't be determined      e) None of these
37. If LMN is to ZYX and EFG is to DCB, then RST is to  
 a) WVU                      b) ORO                      c) KJI  
 d) Can't be determined      e) None of these
38. Which of the following has the same relationship as that of JL:KM?  
 a) RT:UV                      b) EF:GH                      c) CE:DB  
 d) Can't be determined      e) None of these
39. Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to the group?  
 a) LOJ                      b) FID                      c) RUP  
 d) ILN                      e) CFA
40. Which of the following will be the next letter in the following letter series?  
 B    C    E    H    L    ?  
 a) Q                      b) P                      c) O  
 d) Can't be determined      e) None of these

**Directions (Q. 41-50)** In each question below are either two or three statements followed by two conclusions I and II. You have to take the two or three given statements to be true and then decide which of the given conclusions logically follows from the two/three given statements, disregarding the commonly known facts.

Give answer

- a) If only conclusion I follows  
 b) If only conclusion II follows  
 c) If either conclusion I or II follows  
 d) If neither conclusion I nor II follows  
 e) If both conclusions I and II follow

41. **Statements:**                      No table is wood.  
     Some woods are chairs.  
     All chairs are stones.  
**Conclusions:**                      I. No stone is table.  
     II. Some stones are woods.
42. **Statements:**                      All letters are black.  
     All black are blue.  
     No blue is green.  
**Conclusions:**                      I. No letter is green.  
     II. Most blue are black.
43. **Statements:**                      Some fruits are mangoes.  
     Some mangoes are red.  
     All red are vegetables.
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**SBI Preliminary Model Paper 6**

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- Conclusions:** I. No fruit is red.  
II. Some fruits are red.
44. **Statements:** Some eyes are ears.  
Some ears are hands.  
**Conclusions:** I. No hand is an eye.  
II. Some eyes are hands.
45. **Statements:** Some books are pens.  
Some pens are pencils.  
Some pencils are buttons.  
**Conclusions:** I. Some buttons are pens.  
II. Some pencils are books.
46. **Statements:** Some caps are shirts.  
All shirts are papers.  
**Conclusions:** I. All shirts which are caps are papers.  
II. Some shirts are caps.
47. **Statements:** 10% shoes are chappals. 5% chappals are papers. 99% papers are pens.  
**Conclusions:** I. Some shoes are papers.  
II. Some shoes are pens.
48. **Statements:** All A are Z.  
All Z are X.  
All Y are A.  
**Conclusions:** I. All A are Y.  
II. All Y are X.
49. **Statements:** Some water is cold.  
No cold is milk.  
Some milk is water.  
**Conclusions:** I. Some water that is cold is milk.  
II. Some milk that is water is cold.
50. **Statements:** Some waste is white.  
Some white is water.  
Some water is waste.  
**Conclusions:** I. Some waste which is white is water.  
II. Some water is neither waste nor white.
51. 'Nail' is related to 'Nail-cutter' in the same way as 'Hair' is related to \_\_\_\_  
a) oil    b) comb    c) scissors  
d) hair-cut    e) colour
52. Madhu said, "My mother's only son Ashok has no son". Which of the following can be concluded?  
a) Ashok has only daughters  
b) Ashok is not married  
c) Ashok does not have a father  
d) Ashok has only one sister  
e) None of these
53. Which of the following must be there to call something a 'Song'?
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## SBI Preliminary Model Paper 6

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- a) Musical instruments
- b) Classical singer
- c) Words
- d) Film
- e) Drama

54. Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to that group?
- a) Brother
  - b) Grand father
  - c) Mother
  - d) Grand mother
  - e) Father
55. Four of the following five pairs are alike in a certain way and so form a group. Which is the one that does not belong to that group?
- a) RICE:ECIR
  - b) WINGS:SGNIW
  - c) SMART:RTSMA
  - d) COUSIN:SINCOU
  - e) BRAKE:AKRFB

**Directions (Q. 56-60)** Study the following information to answer the given questions.

- (A) Six plays are to be organized from Monday to Sunday-One play each day with one day when there is no play. 'No play' day is not Monday or Sunday.
- (B) The plays are held in sets of 3 plays each in such a way that 3 plays are held without any break i.e., 3 plays are held in such a way, that there is no 'No play' day between them but immediately before this set or immediately after this set it is 'No play' day.
- (C) Play Z is held on 26<sup>th</sup> and play X was held on 31<sup>st</sup> of the same month.
- (D) Play B was not held immediately after play A (but was held after A, not necessarily immediately) and play M was held immediately before Q'.
- (E) All the six plays were held in the same month.
56. Which play was organized on Monday?
- a) Z
  - b) M
  - c) Q
  - d) Can't be determined
  - e) None of these
57. Which day was play Z organized?
- a) Tuesday
  - b) Monday
  - c) Wednesday
  - d) Can't be determined
  - e) None of these
58. Which date was a 'No play' day?
- a) 26<sup>th</sup>
  - b) 28<sup>th</sup>
  - c) 29<sup>th</sup>
  - d) Can't be determined
  - e)
59. Which of the following is true?
- a) Play B is held immediately before play M
  - b) Play Z is held after play B
  - c) There was a gap after 2 plays and then 4 plays were organized
  - d) First play was organized on 25<sup>th</sup>
  - e) Play B was held on Friday
60. Which day was play Q organized?
- a) Friday
  - b) Wednesday
  - c) Saturday
  - d) Can't be determined
  - e) None of these

**Directions (Q. 61-65)** Study the following information to answer the given questions.

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## SBI Preliminary Model Paper 6

- (i) In a family of 6 persons, there are two couples.  
(ii) The Lawyer is the head of the family and has only two sons-Mukesh and Rakesh-both Teachers  
(iii) Mrs.Reena and her mother-in-law both are Lawyers  
(iv) Mukesh's wife is a Doctor and they have a son, Ajay.
61. Which of the following is definitely a couple?  
a) Lawyer-Teacher  
b) Doctor-Lawyer  
c) Teacher-Teacher  
d) Can't be determined  
e) None of these
62. What is the profession of Rakesh's wife?  
a) Teacher  
b) Doctor  
c) Lawyer  
d) Can't be determined  
e) None of these
63. How many male members are there in the family?  
a) Two  
b) Three  
c) Four  
d) Can't be determined  
e) None of these
64. What is/was Ajay's Grandfather's occupation?  
a) Teacher  
b) Lawyer  
c) Doctor  
d) Can't be determined  
e) None of these
65. What is the profession of Ajay?  
a) Teacher  
b) Lawyer  
c) Doctor  
d) Can't be determined  
e) None of these

**Directions (Q. 66-70)** In each question below, is given a statement followed by two assumptions numbered I and II. An assumption is something supposed or taken for granted. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.

Give answer (a) if only assumption I is implicit

Give answer (b) if only assumption II is implicit

Give answer (c) if either assumption I or II is implicit

Give answer (d) if neither assumption I nor II is implicit

Give answer (e) if both assumptions I and II are implicit

**66. Statement:** Please send an official letter rather than semi-official on this subject this time.

**Assumptions:**

- I. The format and emphasis of different types of letters is different.  
II. We can sent different types of letters on the same subject.

**67. Statement:** Please check the availability of 2 tickets from Delhi to Lucknow.

**Assumptions:**

- I. Person checking knows the desired mode of travel.  
II. Person checking knows the details of the person travelling.

**68. Statement:** If you want to increase you writing speed, use 0.7 pen.

**Assumptions:**

- I. There are different types of pens available.  
II. The person being told understands what is 0.7 pen.

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## SBI Preliminary Model Paper 6

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69. **Statement:** In order to build more space, extra FSI needs to be bought.

**Assumptions:**

- I. The person being told does not know the meaning of FSI.
- II. More space will reduce the construction cost.

70. **Statement:** Let there be a sign-board also indicating the directions and instructions.

**Assumptions:**

- I. Sign-board can be prepared without using any language.
- II. Sign-board is the only effective tool to indicate directions.

### English Language

**Directions (Q. 71-80)** Read the following passage carefully and answer the questions given below it.

"Uncle" said Luke to the old Sean, "You seem to be well fed, though I know no one looks after you. Nor have I seen you leave your residence at any time. Tell me how do you manage it?"

"Because" Sean replied, "I have a good feed every night at the emperor's orchard. After dark, I go there myself and pick out enough fruits to last a fortnight."

Luke proposed to accompany his uncle to the orchard. Though **reluctant** because of Luke's habit of euphoric exhibition of **extreme** excitement, Sean agreed to take him along.

At the orchard while Sean hurriedly collected the fruits and left, Luke on the other hand at the sight of unlimited supply of fruits was excited and lifted his voice which brought emperor's men immediately to his side. They seized him and mistook him as the sole cause of damage to the orchard. Although Luke **reiterated** that he was a bird of passage, they **pounded** him **mercilessly** before setting him free.

- 71. How did old Sean manage to meet his food requirements?
    - a) By buying food from the market
    - b) His nephew Luke took care of his requirements
    - c) Luke brought fruits from the emperor's orchard for Sean
    - d) He picked up fruits from the emperor's orchard
  - 72. Which of the following is not true in the context of the passage?
    - a) Sean was a poor and suffering man
    - b) Luke came to know about the orchard from his uncle
    - c) Sean initially hesitated to take his nephew along
    - d) Luke was finally set free
  - 73. Why was Sean reluctant to take Luke along?
    - a) Because he was a selfish man
    - b) He feared that Luke's reaction may alert the Emperor's men
    - c) Because Luke could harm him
    - d) He wanted to bring fruits for Luke himself
  - 74. How often did Sean visit the emperor's orchard?
    - a) Daily
    - b) Once a month
    - c) In a period of two weeks
    - d) Everyday during midnight
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## SBI Preliminary Model Paper 6

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75. Luke remained behind at the orchard because he
- Was greedy and wanted to collect more fruits
  - Waited for the Emperor's men to arrest him
  - Lost his composure and started expressing his feelings loudly
  - Had waited for his uncle to return

**Directions (Q. 76-78)** Choose the word/phrase which is most nearly the same in meaning of the word printed in bold as used in the passage.

76. Reiterated
- |             |                  |              |
|-------------|------------------|--------------|
| a) Pleaded  | b) Regurgitated  | c) Protested |
| d) Repeated | e) Recapitulated |              |
77. Extreme
- |            |             |           |
|------------|-------------|-----------|
| a) End     | b) High     | c) Severe |
| d) Serious | e) Moderate |           |
78. Reluctant
- |                |                  |            |
|----------------|------------------|------------|
| a) Disinclined | b) Opposed       | c) Against |
| d) Resistant   | e) None of these |            |

**Directions (Q. 79-80)** Choose the word which is most opposite in meaning of the word printed in bold as used in the passage.

79. Pounded
- |             |             |         |
|-------------|-------------|---------|
| a) Weighed  | b) Released | c) Paid |
| d) Attended | e) Caressed |         |
80. Mercilessly
- |               |                    |           |
|---------------|--------------------|-----------|
| a) Calmly     | b) Compassionately | c) Mildly |
| d) Forgivably | e) Sympathetically |           |

**Directions (Q. 81-85)** Which of the phrases (1), (2), (3) and (4) given below should replace the phrase given in bold in the following sentence to make it meaningful and grammatically correct. If the sentence is correct as it is and no correction is required, mark (5) as the answer.

81. Banks charge **differently rate of interest** depending on the size of the loan
- difference in rate of interests
  - differently what rate of interest
  - different rates of interest
  - the different rate of interest
  - No correction required
82. It is necessary that **we take any** steps to reduce pollution soon
- we should take every
  - we have taken no
  - us to take any
  - we take some
  - No correction required
83. It is too early to say **how the impact** the new tax will have on investors
- what impact
  - that the impact
  - how much impacts
  - what are the impacts of
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## SBI Preliminary Model Paper 6

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- e) No correction required
84. Kindly ask **his advice** regarding the various health insurance policies presently available.
- him to advise that
  - regarding his advise
  - that he should advice
  - about his advice
  - No correction required
85. Unfortunately many of our towns and cities do **have more good** transportation systems.
- have a good
  - not have good
  - not have much good
  - not having better
  - No correction required

**Directions (Q. 86-90)** In each question below a sentence with four words printed in bold type is given. These are numbered as (1), (2), (3) and (4). One of these four words printed in bold may be either wrongly spelt or inappropriate in the context of the sentence. Find out the word which is wrongly spelt or inappropriate if any. The number of that word is your answer. If all the words printed in bold are correctly spelt and also appropriate in the context of the sentence, mark (5) i.e., 'All correct' as your answer.

86. The bank's **fluctuating** performance over the **prior** year has been a **major cause** for concern.
- fluctuating
  - prior
  - major
  - cause
  - All correct
87. An economy **relies** on its **access to dependable** and **affordable** sources of energy.
- relies
  - access
  - dependable
  - affordable
  - All correct
88. Researches have used data **prevalent** to manufacturing companies to **illustrate** the **harmful impacts** of technology on the environment.
- prevalent
  - illustrate
  - harmful
  - impacts
  - All correct
89. Such a **situation** is neither **feasible** nor **desirable** in a democratic country like **ours**.
- situation
  - feasible
  - desirable
  - ours
  - All correct
90. The **gradual withdrawal** of such **safety mechanisms** will affect small and medium industries the most.
- gradual
  - withdrawal
  - safety
  - mechanisims
  - All correct

**Directions (Q. 91-100)** In the following passage there are blanks, each of which has been numbered. These number are printed below the passage and against each five words are suggested, one of which fits the blank appropriately. Find out the appropriate word in each case.

The World's climate has always changed and species have evolved accordingly to survive it. The surprising fact about the (91) between evolution and global warning (92) that it is not liner (93) temperatures alone are not (94) of evolution. Evolution is also the (95) of seasonal changes. As the environment (96) those species which don't adapt (97) to exist. But the sheer (98) of manmade climate change today is (99). 'Bad things are happening' and by one (100) global warming could threaten upto one-third of the World's species if left unchecked.

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## SBI Preliminary Model Paper 6

91. a) difference                      b) similarity                      c) argument  
d) relationship                      e) alliance
92. a) being                              b) seema                              c) mainly  
d) besides                              e) is
93. a) however                              b) mounted                              c) rising  
d) elevating                              e) inclining
94. a) means                              b) triggers                              c) responses  
d) threats                              e) stimulus
95. a) results                              b) precursor                              c) resistance  
d) cause                              e) provocation
96. a) conserves                              b) stifles                              c) predicts  
d) changes                              e) emerges
97. a) continue                              b) halt                              c) cease  
d) terminate                              e) discontinue
98. a) luck                              b) value                              c) coolapse  
d) pace                              e) attention
99. a) threatened                              b) pursued                              c) unprecedented  
d) record                              e) debated
100.                      a) forecast                              b) chance                              c) pattern  
                            d) occasion                              e) imagination

**Answers:**

- Option B  
 $6^3 \times 9^2 + 18 = ?$   
 $? = 17496 + 18 = 972$
- Option B  
 $\sqrt[3]{941192} = ?$   
 $\sqrt[3]{98^3} = ?$   
 $? = 98$
- Option D  
 $999 \times 99 \times 9 = ?$   
 $? = 890109$
- Option D  
 $7410 + ? \div 3652 \div 1479 = 11820$   
 $? = (11820 + 3652 + 1479) \div 7410 = 9541$
- Option E  
 $32\% \text{ of } 860 \times ? = 61920$   
 $32/100 \times 860 \times ? = 61920$   
 $? = 61920 \times 100 / 32 \times 860 = 225$
- Option E  
 $963 \times 874 = ?$   
 $? = 841662$

## SBI Preliminary Model Paper 6

7. Option C  
 $\sqrt{12544} \div 64 \times ? = 43.75$   
 $112 \div 64 \times ? = 43.75$   
 $112/64 \times ? = 43.75$   
 $? = 43.75 \times 64 / 112 = 25$
8. Option C  
 $444 \div (16 \times 15) = ?$   
 $444 \div 24 = ?$   
 $? = 18.5$
9. Option B  
 $16^9 \div 16^4 \times 16^3 = 16^?$   
 $16^5 \times 16^3 = 16^?$   
 $16^8 = 16^?$   
 $? = 8$
10. Option D  
 $0.08 \times ? \times 2.5 = 1.12$   
 $? = 1.12 / 0.08 \times 2.5 = 5.6$
11. Option B  
 After two years, population =  $198000 \left(1 + \frac{7}{100}\right)^2 = 198000 \left(1 + \frac{14}{100} + \frac{49}{10000}\right) = 198000 \left(\frac{107}{100} + \frac{49}{10000}\right) = 198000 \left(\frac{10700 + 49}{10000}\right) = 198000 \left(\frac{10749}{10000}\right) = 21267$
12. Option D
13. Option A  
 Given  $x + y = 20$   
 $(x + y)^2 = 20^2$   
 $x^2 + y^2 + 2xy = 400$   
 $x^2 + y^2 = 400 - 2 \times 84$   
 $= 400 - 168 = 232$
14. Option E
15. Option C  
 Let the digit of unit place be  $x$ .  
 So, the digit of tens place will be  $(15 - x)$   
 $[10(15 - x) + x] - [10x + (15 - x)] = 9$   
 $150 - 10x + x - 10x - 15 + x = 9$   
 $135 - 18x = 9$   
 $18x = 126$   
 $x = 7$   
 Thus, the digits of the number are 7 and 8.  
 So, the multiple of digits = 56
16. Option E  
 Let the original selling price be Rs. $x$ .  
 Therefore,  $779 = x \left(1 - \frac{24}{100}\right)$   
 $779 = x \left(\frac{76}{100}\right)$   
 $x = 779 \times 100 / 76 = \text{Rs.}1025$
17. Option E
18. Option B
19. Option C  
 Let she invests the money for  $x$  yr.  
 Therefore,  $(11442 - 9535) = 9535 \times 4 \times x / 100$   
 $190700 = 9535 \times 4 \times x$   
 $x = 190700 / 9535 \times 4 = 5$  years
20. Option E  
 Total cost =  $[195/13 \times 21 + 544/17 \times 26 + 336/21 \times 19]$   
 $= \text{Rs.}(315 + 832 + 304) = \text{Rs.}1451$
21. Option C



## SBI Preliminary Model Paper 6

$$\sqrt{876} \times 20.6 + 165.34 = ?$$

$$29.6 \times 20.6 + 165.34 = ?$$

$$? = 609.76 + 165.34$$

$$= 775.1 = 775$$

## 22. Option B

Let these two consecutive even number be  $x$  and  $x + 2$ . Therefore,  $x(x + 2) = 16128$

$$x^2 + 2x - 16128 = 0$$

$$x^2 + 128x - 126x = 16128 = 0$$

$$x(x + 128) - 126(x + 128) = 0$$

$$(x + 128)(x - 126) = 0$$

Since,  $x + 128 = 0$  is not possible

$$\text{Therefore, } x - 126 = 0$$

$$x = 126$$

So, the larger number = 128

## 23. Option D

We cannot determined because the sum divided between E and F is not given.

## 24. Option D

$$\text{Average} = 178 + 863 + 441 + 626 + 205 + 349 + 462 + 820 / 8$$

$$3944 / 8 = 493$$

## 25. Option D

Let the number be  $x$ .

$$\text{According to the question, } x \times 38/100 - x \times 24/100 = 135.10$$

$$x [38 - 24 / 100] = 135.10$$

$$x = 135.10 \times 100 / 14 = 965$$

$$\text{Now, } 40\% \text{ of } 965 = 965 \times 40/100 = 386$$

## 26. Option C

16 men can do a work in = 8 days

1 man can do a work in =  $8 \times 16$  days

12 men can do a work in  $8 \times 16 / 12$  days

$$= 10\frac{2}{3} \text{ days}$$

## 27. Option A

Let the number of hens be  $x$ .

Therefore, the number of cows will be  $(59 - x)$

$$\text{According to the question, } x \times 2 + 4(59 - x) = 190$$

$$2x$$

$$236 - 4x = 190$$

$$2x = 46$$

$$x = 23$$

$$\text{So, the number of cows} = 59 - 23 = 36$$

## 28. Option A

Let the original fraction =  $x/y$

$$\text{According to the question, } x + x \times 200\% / y + y \times 160\% = 7/13$$

$$= x + 200x/100/160y / y + 160y/100 = 7/13$$

$$= 3x/2.6y = 7/13$$

$$= x/y = 7/13 \times 26/30 = 7/15$$

Hence, the original fraction is  $7/15$ .

## 29. Option A

Let the required number be  $x$ .

$$\text{Therefore, } x^2 + 41^2 = 7457$$

$$x^2 = 7457 - 1681 = 5776$$

$$x = 76$$

## 30. Option D

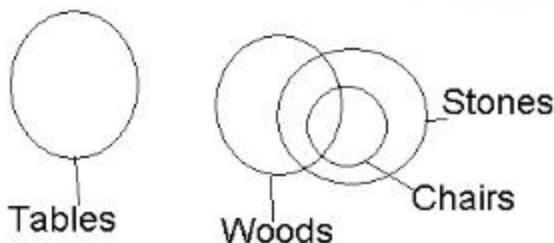
Clearly, 4700 lies between the squares of 68 and 70. Therefore, its nearest square is  $69^2$ .

$$\text{So, the required number} = 69^2 - 4700$$

## SBI Preliminary Model Paper 6

$$= 4761 \div 4700 = 61$$

31. Option C  
 Total number of girls enrolled in Painting in the Institutes A and C together =  $250 + 150 = 400$   
 Total number of girls enrolled in Stitching in the Institutes D and E together =  $250 + 325 = 575$   
 Required ratio =  $400 : 575 = 16 : 23$
32. Option B  
 Total number of girls enrolled in Stitching in all the Institutes together =  $325 + 250 + 50 + 250 + 325 = 1200$   
 Number of girls enrolled in Stitching in Institute B = 250  
 Required percentage =  $250/1200 \times 100 = 20.8 = 21\%$
33. Option A  
 Number of girls from all institutes enrolled in Painting  $\rightarrow 250 + 225 + 150 + 175 + 300 = 1100$   
 Stitching  $\rightarrow 1200$   
 Dancing  $\rightarrow 150 + 200 + 75 + 400 + 350 = 1175$   
 Required ratio =  $1100 : 1200 : 1175 = 44 : 48 : 47$
34. Option E  
 Total number of girls in the institute A =  $250 + 325 + 150 = 725$   
 Number of girls enrolled in Dancing in the institute A = 150  
 Required percentage =  $150/725 \times 100 = 20.69\%$
35. Option D  
 Total number of girls in Painting = 1100
36. Option B  
 37. Option D  
 38. Option E  
 39. Option D  
 40. Option A  
 41. Option B



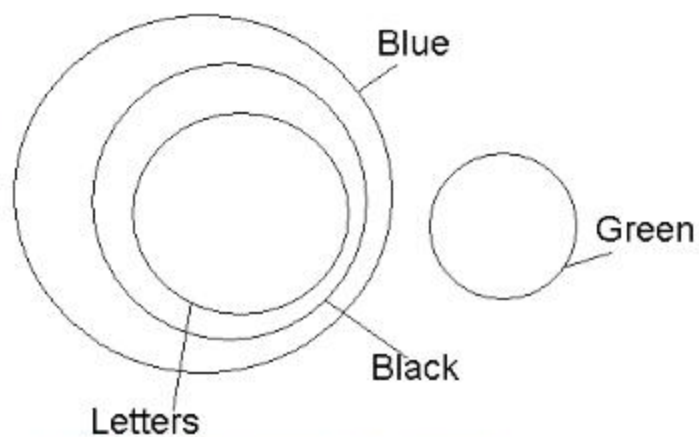
Conclusions: I. False  
 II. True

Only II follows

42. Option E

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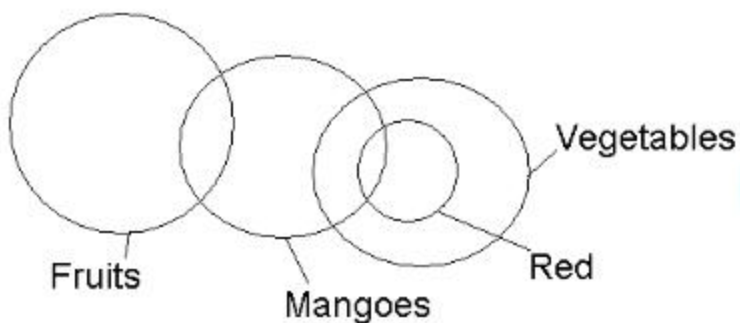
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Conclusions: I. True  
II. True

Both I and II follow

43. Option C

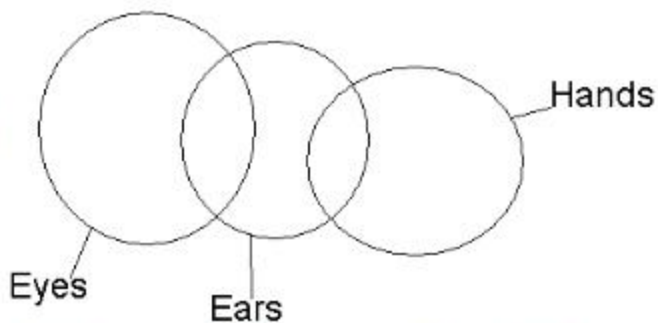


Either I or II follows

44. Option C

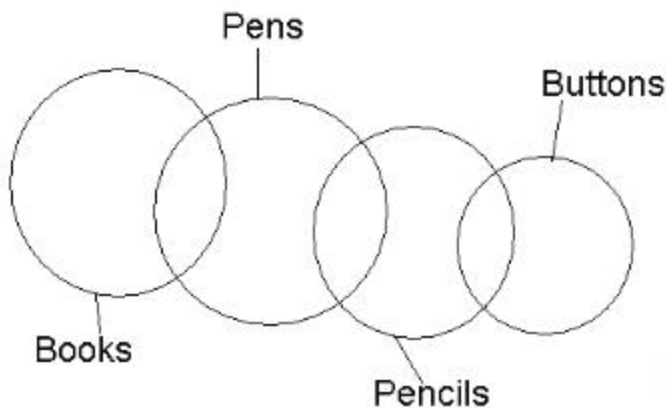
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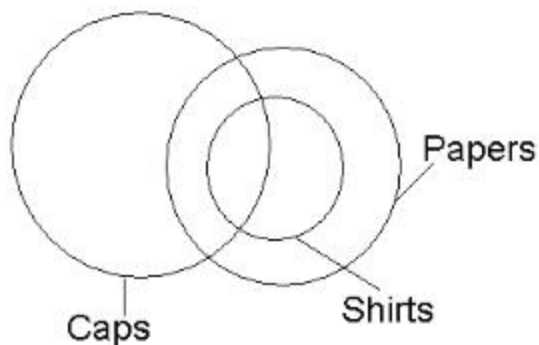
Either I or II follows

45. Option D



Conclusions: I. False  
II. False  
Neither I nor II follows

46. Option E



Conclusions: I. True

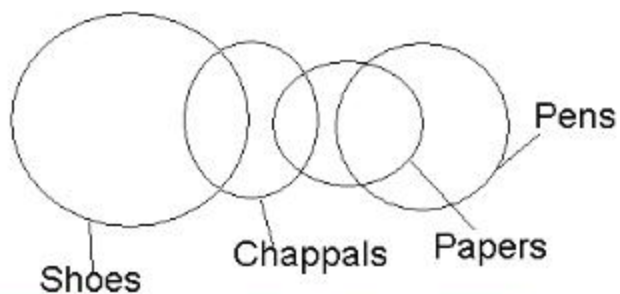
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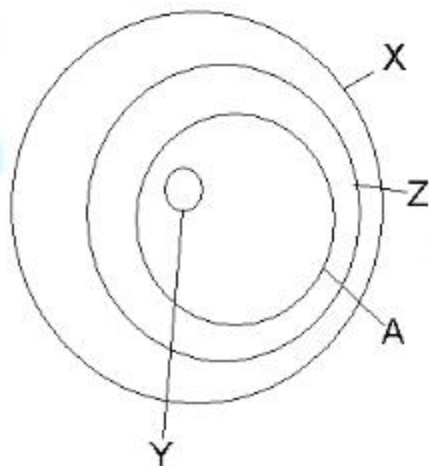
Both I and II follow      II. True

47. Option D



Conclusions: I. False      II. False  
Neither I nor II follows

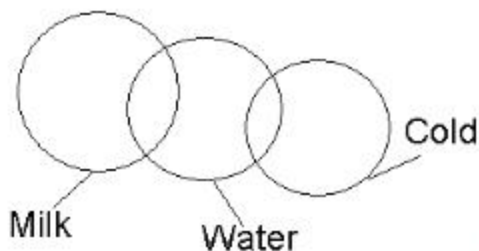
48. Option B



Conclusions: I. False      II. True  
Only II follows

49. Option D

## SBI Preliminary Model Paper 6

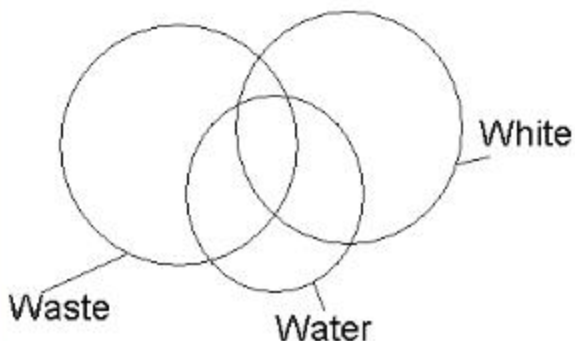


Conclusions: I. False

II. False

Neither I nor II follows

50. Option B



Conclusions: I. False

II. True

Only II follows

51. Option C

Nail is related to nail-cutter in the same way Hair is related to scissors.

52. Option E

53. Option C

54. Option A

Except 'brother' all are parents and grand parents. Brother is existing at same generation.

55. Option E

Day	Date	Play
Monday	25 <sup>th</sup>	A
Tuesday	26 <sup>th</sup>	Z
Wednesday	27 <sup>th</sup>	B
Thursday	28 <sup>th</sup>	No play
Friday	29 <sup>th</sup>	M
Saturday	30 <sup>th</sup>	Q
Sunday	31 <sup>st</sup>	X

56. Option E

57. Option A

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## SBI Preliminary Model Paper 6

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- 58. Option B
- 59. Option D
- 60. Option C
- 61. Option A
- 62. Option C
- 63. Option B
- 64. Option D
- 65. Option D
- 66. Option E

Here the format is not cleared. It may be different in types. According to statement, they are asking to send an official letters rather than semi-official but the format of letter may be different and we can send different types of letters on the same subject.

- 67. Option A

Statement said to check the availability of tickets from Delhi to Lucknow so, they should have know the desired mode of travel. To check availability no need of the details of the preson. Feel it practically when you goes to a travel agent and asking for availability. Once you sure about availability then Assumption (II) counts for getting a ticket. So, only Assumption (I) is implicit.

- 68. Somebody (means that person) told you to use 0.7 pen means either he has used or listen the quality of that pen. So, he is suggesting to you. So, Assumption (II) is implicit. If the category of pen is suggested means there are also different type of pens available. So, Assumption (I) is also implicit.

- 69. Option D

In order to build more space, extra FSI needs to be bought one person is telling such statement to other. According to statement, they have to bought FSI hardly matter that the person being told does not know the meaning of FSI. If he does not know the meaning he can ask but mostly we should assume that they are handling such project means they both know the meaning of FSI. So, Assumption (I) is not implicit. More space will reduce the construction cost. Regarding this assumption we cannot say anything because nothing is said in statement regarding Assumption (II) and also it cannot implicit. So, finally neither (I) nor (II) is implicit.

- 70. Option D

Assumption (I) said sign-board can be prepared without using any language then how can an instruction will be written in sign-board. So, Assumption (I) is not implicit. In Assumption (II), the word 'only' makes this assumption non implicit. A person can also guide better than a sign-board. In such a condition Assumption (II) is also not implicit.

- 71. Option C
  - 72. Option A
  - 73. Option B
  - 74. Option D
  - 75. Option C
  - 76. Option D
  - 77. Option B
  - 78. Option A
  - 79. Option E
  - 80. Option B
  - 81. Option C
  - 82. Option D
  - 83. Option A
  - 84. Option E
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## SBI Preliminary Model Paper 6

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- 85. Option C
- 86. Option B
- 87. Option E
- 88. Option A
- 89. Option B
- 90. Option D
- 91. Option D
- 92. Option E
- 93. Option C
- 94. Option A
- 95. Option B
- 96. Option D
- 97. Option C
- 98. Option D
- 99. Option E
- 100. Option A

