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SBI Preliminary Model Paper 6

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Quantitative Aptitude

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

1.	$(6)^3 \times (9)^2 \div 1$ a) 1458	18 = ? b) 972	c) 8748	d) 162	e) None of these
2.	√941192 = ? a) 101	b) 98	c) 96	d) 99	e) None of these
3.	999 × 99 × 9 = a) 891009	? b) 890019	c) 890190	d) 890109	e) None of these
4.	7410 + ?⊠ 3652 a) 9451	2 ☑ 1479 = 11820 b) 9527) c) 9441	d) 9541	e) None of these
5.	32% of 860 × 5 a) 252	2 = 61920 b) 255	c) 215	d) 205	e) None of these
6.	963 × 874 = ? a) 840788	b) 843588	c) 839736	d) 842536	e) None of these
7.	√12544÷ 64 > a) 30	< ? = 43.75 b) 15	c) 25	d) 40	e) None of these
8.	444 ÷ (16 × 1.: a) 41.625	5) = ? b) 222	c) 18.5	d) 185	e) None of these
9.	(16) ⁹ ÷ (16) ⁴ > a) 6.75	$(16)^3 = (16)^?$ b) 8	c) 10	d) 12	e) None of these
10.	0.08 × ? × 2.5 = a) 6.5	= 1.12 b) 6.6	c) 5.5	d) 5.6	e) None of these
11.	11. The population of a town is 198000. It increases by 7% in the 1^{st} year and decreases by 5% in the 2^{nd} 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 co 3 7 13 ? 31 43	ome in place of the	he question mark	x (?) in the follow	ving number series?
	a) 18	b) 19	c) 23	d) 21	e) None of these
13.	If $x + y = 20$ ar a) 232 b) 400	nd xy = 84; what 0 c) 128		$x^2 + y^2$? not be determine	ed e) None of these
14.	In how many d a) 5040	ifferent ways car b) 720	n the letters of th c) 1260	e word 'ABILIT d) 2420	'Y' be arranged? e) None of these
15.					btained by interchanging two ber is 15. What is the product

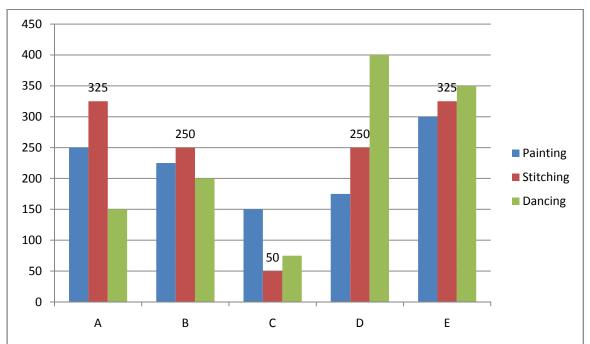
15. The difference between a two digit number and the number obtained by interchanging two digits of the number is 9. The sum of the two digits of the number is 15. What is the product of two digits of two digit number?a) 54 b) 72 c) 56 d) Can't be determined e) None of these

16 Vinita h	ought a watch with '	24% discount on	the selling pric	e. If the watch cost her Rs 779	
What is	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.10	b) Rs.950	c) Rs.1040	d) Can't be d	letermined e) None of these	
	mate amount of comp			per annum for 3 years. What e end of 3 years? e) Rs.897	
revoluti				ar stadium. They complete their ny seconds will they be together	
a) 336	b) 504	c) 252	d) Can't be d	letermined e) None of these	
of Rs.1		est after a certain		nnumm to obtain a total amount w many years did she invest the	
a) 10 ye	ars b) 2 years	c) 5 years	d) 4 years	e) None of these	
	t is Rs.336. What is the			e is Rs.544 and the cost of 21 kg 5 kg of rice and 19 kg of wheat? e) None of these	
question		ould come in pl	ace of the ques	stion mark (?) in the following	
a) 700	b) 686	c) 775	d) 846	e) 745	
22. The pro a) 132	duct of two consecuti b) 128	ve even numbers c) 124	s is 16128. Whic d) 126	th is t he larger number? e) None of these	
5 and an		is to be divided		C in the respective ratio of 3 : 4 : F equally. If F got Rs.1050 less	
a) Rs.75		b) Rs.2000	c) Re	s.1500	
d) Can't	t be determined	e) None of th	lese		
	e average of the follow 3, 441, 626, 205, 349,		es.		
a) 505	b) 441	c) 349	d) 493	e) None of these	
	ference between 38% that number?	of a number ar	nd 24% of the s	ame number is 135.10. What is	
a) 394	b) 370	c) 378	d) 386	e) None of these	
	can complete a piece ece of work?	of work in 8 da	ys. In how man	y days can 12 men complete the	
a) 10	b) 9-1/3	c) 10-2/3	d) Can't be d	letermined 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		letermined e) None of these	
	umerator of a fraction he resultant fraction i			he denominator is increased by ion?	

- 29. If 41² 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

Reasoning Ability

36.	If CGKQW is one sequence f similar type of logic is BFJPV, t a) CFKNT d) Can't be determined	0 0	nother five letter sequence following of this type can be c) VPJFB
37.	If LMN is to ZYX and EFG is to	o DCB, then RST is to	
	a) WVU	b) ORO c) KJI	
	d) Can't be determined e) None	, , ,	
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 a that does not belong to the group	•	nd so from a group. Which is the one
	a) LOJ	b) FID	c) RUP
	d) ILN	e) CFA	
40.	Which of the following will be t	the next letter in the follo	owing letter series?
	B C E H	L ?	6
	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: Conclusions:	No table is wood. Some woods are chairs. All chairs are stones. I. No stone is table. II. Some stones are woods.
42. Statements:	All letters are black. All black are blue.
Conclusions:	No blue is green. I. No letter is green. II. Most blue are black.
43. Statements:	Some fruits are mangoes. Some mangoes are red. All red are vegetables.

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:	Come hooles are none	
43. Statements:	Some books are pens. Some pens are pencils.	
	Some pencils are buttons.	
Conclusions:	I. Some buttons are pens.	
Conclusions.	II. Some pencils are books.	
	in some penens are cooks.	
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.	10% shoes are enappais. 5% enappais are papers. 55% papers are	
Conclusions:	I. Some shoes are papers.	
conclusions.	II. Some shoes are pens.	
	I	
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.	
+). Statements.	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 'Na	ail-cutter' in the same way as 'Hair' is related to	
a) oil	b) comb c) scissors	
d) hair-cut	e) colour	
	other's only son Ashok has no son". Which of the following can be	
concluded?		
a) Ashok has only dau		
b) Ashok is not married		
c) Ashok does not hav		
d) Ashok has only one sister a) None of these		

e) None of these

53. Which of the following must be there to call something a 'Song'?

- 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:ECIRb) WINGS:SGNIWc) SMART:RTSMAd) COUSIN:SINCOUe) BRAKE:AKRFB

Directions (Q. 56-60) Study the following information to answerr 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^{th} and play X was held on 31^{st} 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 1a) Zd) Can't be determined	Monday? b) M e) None of these	c) Q
57. Which day was play Z organiza) Tuesdayd) Can't be determined	ed? b) Monday e) None of these	c) Wednesday
 58. Which date was a 'No play' da a) 26th d) Can't be determined 	b) 28^{th} c) 29^{th} e)	
 59. Which of the following is true a) Play B is held immediately b b) Play Z is held after play B c) There was a gap after 2 play d) First play was organized on e) Play B was held on Friday 	before play M is and then 4 plays were o	organized
60. Which day was play Q organiza) Fridayd) Can't be determined	ed? b) Wednesday e) None of these	c) Saturday

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

(i)	In a family of 6 persons, th	In a family of 6 persons, there are two couples.			
(ii)) The Lawyer is the head or Teachers	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		•			
61	 Which of the following is define a) Lawyer-Teacher b) Doctor-Lawyer c) Teacher-Teacher d) Can't be determined e) None of these 	itely a couple?			
62	What is the profession of Rakesa) Teacherd) Can't be determined	sh's wife? b) Doctor e) None of these	c) Lawyer		
63	How many male members are ta) Twod) Can't be determined	there in the family? b) Three e) None of these	c) Four		
64	 What is/was Ajay's Grandfathe a) Teacher d) Can't be determined 	er's occupation? b) Lawyer e) None of these	c) Doctor		
65	 What is the profession of Ajay a) Teacher d) Can't be determined 	? b) Lawyer e) None of these	c) Doctor		

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 or II is implicit

Give answer (a) if hoth assumptions I and II are 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.

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 ecmperor's men immediately to his side. They seized him and mistook him as the sole cause of damage to t he orchard. Although Luke **reiterated** that he was a b ird 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

- 75. Luke remained behind at the orchard because he
 - a) Was greedy and wanted to collect more fruits
 - b) Waited for the Emperor's men to arrest him
 - c) Lost his composure and started expressing his feelings loudly
 - d) 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. Reiterateda) Pleadedd) Repeated	b) Regurgitated e) Recapitulated	c) Protested
77. Extremea) Endd) Serious	b) High e) Moderate	c) Severe
78. Reluctanta) Disinclinedd) Resistant	b) Opposed e) None of these	c) Against

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 d) Attended	b) Released e) Caressed	c) Paid
80.	Mercilessly a) Calmly d) Forgivably	b) Compassionately e) Sympathetically	c) Mildly

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 corect 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

- a) difference in rate of interests
- b) differently what rate of interest
- c) different rates of interest
- d) the different rate of interest
- e) No correction required

82. It is necessary that we take any steps to reduce pollution soon

- a) we should take every
- b) we have taken no
- c) us to take any

d) we take some

e) No correction required

83. It is too early to say how the impact the new tax will have on investors

- a) what impact
- b) that the impact
- c) how much impacts
- d) what are the impacts of

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

	a) nucluating	0) prior	c) major
	d) cause	e) All correct	
87.	. An economy relies on	its access to dep	endable and affordable sources of energy.
	a) relies	b) access	c) dependable
	d) affordable	e) All correct	
88	. Researches have used impacts of technology	-	o manufacturing companies to illustrate the harmful ent.
	a) prevalent	b) illustrate	c) harmful
	d) impacts	e) All correct	
89	. Such a situation is neit	ther feesible nor d	lesirable in a democratic country like ours.
	a) situation	b) feasible	c) desirable
	d) ours	e) All correct	
90	. The gradual withdr industries the most.	awal of such s	safety mechanisims will affect small and medium
	a) gradual	b) withdrawal	c) safety

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.

e) All correct

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.

d) mechanisims

91. a) diffe d) rela	erence tionship	b) similarity e) alliance	c) argument
92. a) beir d) besi	•	b) seema e) is	c) mainly
93. a) how d) elev		b) mounted e) inclining	c) rising
94. a) mea d) thre		b) triggers e) stimulus	c) responses
95. a) resu d) cau		b) precursor e) provocation	c) resistance
96. a) con d) cha		b) stifles e) emerges	c) predicts
97. a) con d) term		b) halt e) discontinue	c) cease
98. a) luck d) pace		b) value e) attention	c) coolapse
99. a) thre d) reco		b) pursued e) debated	c) unprecedented
100.	a) forecast d) occasion	b) chance e) ima	c) pattern gination

Answers:

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

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7. Option C
    \sqrt{12544} ÷ 64 × ? = 43.75
    112 \div 64 \times ? = 43.75
    112/64 x ? = 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 1 + 7/100 1 2 5/100
                                        = 198000 107/100 95/100 = 201267
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 \ \mathbb{Z} 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 \square x)
    [10(15 \square x) + x] \square [10x + (15 \square x)] = 9
    150 \square 10x + x \square 10x \square 15 + x = 9
    135 🛛 18 x = 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 (1 24/100)
    779 = x (76/100)
    x = 779 \times 100 / 76 = 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]
    = Rs.(315 + 832 + 304) = Rs.1451
21. Option C
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\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 \square 16128 = 0
    x^2 + 128x \square 126x = 16128 = 0
    x(x + 128) 2 126 (x + 128) = 0
    (x + 128) (x \square 126) = 0
    Since, x + 128 = 0 is not possible
    Therefore, x \square 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
    Average = 178 + 863 + 441 + 626 + 205 + 349 + 462 + 820 / 8
    3944 / 8 = 493
25. Option D
    Let the number be x.
    According to the question, x \times 38/100 \ \square \ x \times 24/100 = 135.10
    x [38 224 / 100] = 135.10
    x = 135.10 \times 100 / 14 = 965
    Now, 40% 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
    = 10-2/3 days
27. Option A
    Let the number of hens be x.
    Therefore, the number of cows will be (59 \ \mathbb{Z} x)
    According to the question, x \times 2 + 4 (59 \square x) = 190
    2x
    236 🛛 4x = 190
    2x = 46
    x = 23
    So, the number of cows = 59 \ \square \ 23 = 36
28. Option A
    Let the original fraction = x/y
    According to the question, x + x \boxtimes 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.
    Therefore, x^2 + 41^2 = 7457
    x^2 = 7457 \ \square 1681 = 5776
    x = 76
30. Option D
    Clearly, 4700 lies between the squares of 68 and 70. Therefore, its nearest square is 69^2.
    So, the required number = 69^2 \square 4700
```

= 4761 2 4700 = 61 31. Option C

Total number of girls enrolled in Painjting in the Institutes A and C together = 250 + 150 =400

Total number of girls enrolled in Stitching inn 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

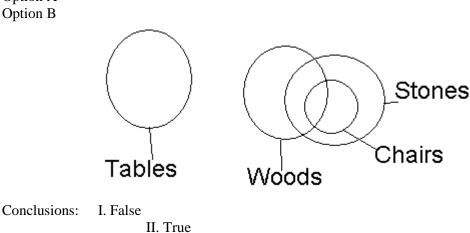
34. Option E

Total number of girls in the institute A = 250 + 325 + 150 = 725Number of girls enrolled in Dancing in the institute A = 150

Required percentage = $150/725 \times 100 = 20.69\%$

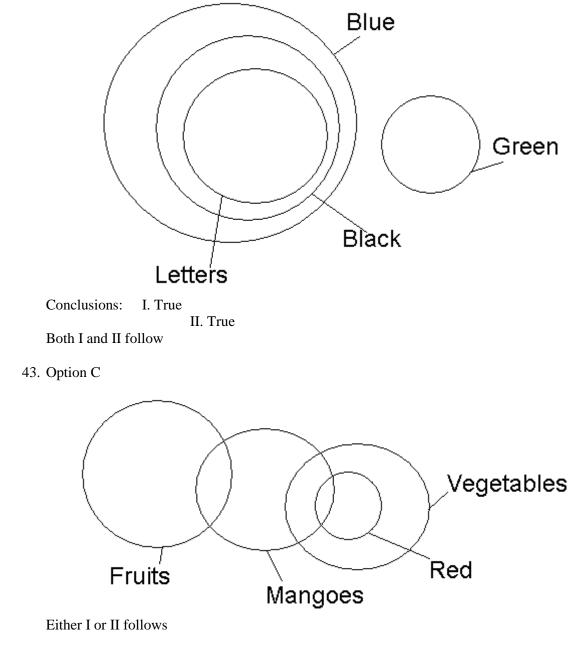
35. Option D Total number of girls in Painting = 1100

- 36. Option B
- 37. Option D
- 38. Option E
- 39. Option D
- 40. Option A
- 41. Option B

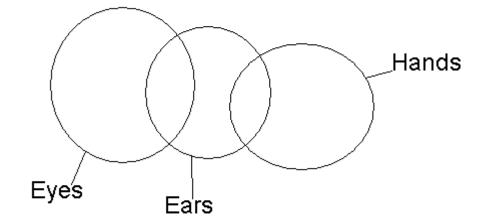


42. Option E

Only II follows

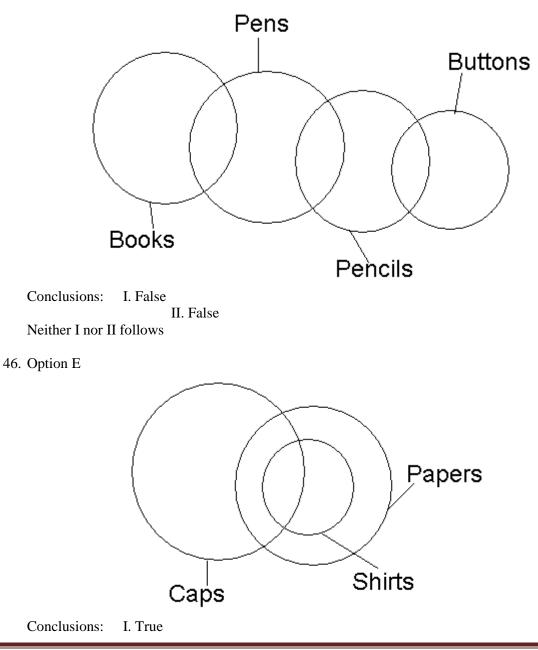


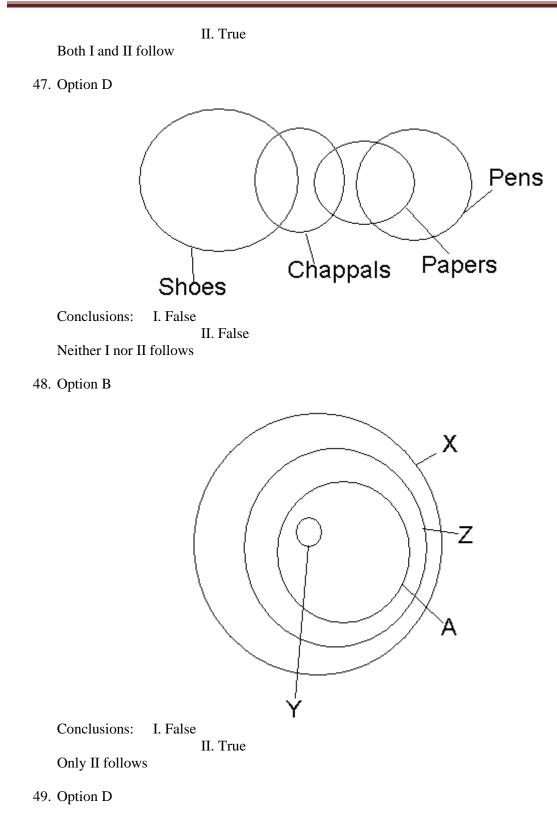
44. Option C



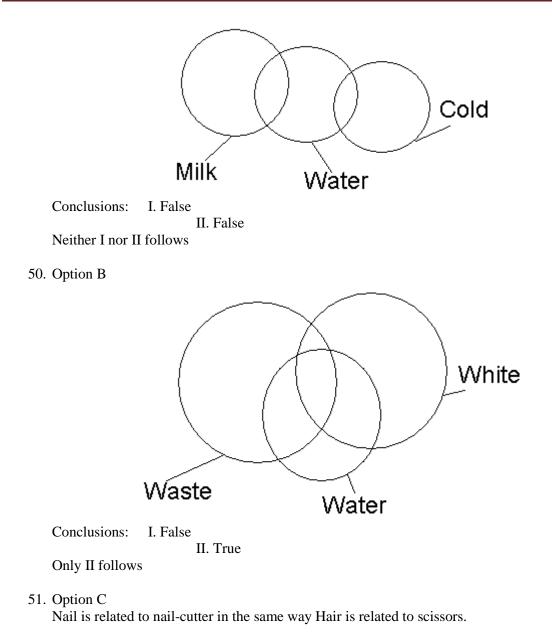
Either I or II follows

45. Option D





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- 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

Date	Play	
25^{th}	A	
26^{th}	Z	
27 th	В	
28 th	No play	
29 th	М	
30 th	Q	
31 st	X	
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccc} 25^{th} & A \\ \hline 26^{th} & Z \\ \hline 27^{th} & B \\ \hline 28^{th} & No play \\ \hline 29^{th} & M \\ \hline 30^{th} & Q \\ \end{array}$

- 56. Option E
- 57. Option A

- 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

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 Option A 100.