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## SBI PO PRELIMS MODEL TEST-91

## **QUANTITATIVE APTITUDE**

Direction	(41-45):	In the	following	questions,	two	equations	I and	П	are	given.
You have t	to solve b	oth th	e equations	s and give	Answ	er as,				_

4.4					
41.	1: $x^2 - 3x - 40$		II: $y^2 - 11y + 3$	30 = 0	_,
	1) x > y	2) x < y	3) $x \ge y$ 11: $2y^2 + 26y +$	4) $x \leq y$	5) $x = y$ or no relation
42.	$1: x^2 + 15x + 5$	6 = 0	II: $2y^2 + 26y +$	84 = 0	
	1) x > y	2) x < y	3) $x > y$	4) $x < y$	5) $x = y$ or no relation
43.	1: $x^2 - 13x + 42$	Q = 0	3) $x \ge y$ 11: $y^2 - 17y + 7$	72 = 0	. 3
	1) x > y	2) x < v	3) $x \ge y$ II: $5y^2 + 27y +$	4) $x < y$	5) $x = y$ or no relation
44.	1: $2x^2 + 11x + 1$	12 - N	$11.5v^2 + 27v +$	10 - 0	o, x y or rie relation
77.	1) v < v	2) v < v	$2) \times \times \times$	10 - 0 1) v < v	5) $x = y$ or no relation
4 E	$1/A \ge y$	2) x < y 5 = 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	4) \ \ \ \ \ \ \	3) X = y 01 110 relation
45.	1: 0X <sup>2</sup> + 13X +	5 = U	11: 9y² + 22y +	8 = 0	<b>5</b> \
	1) X > Y	2) X < Y	$(3) \times (3) $	4) X ≤ Y	5) x = y or no relation r the question.
	Direction (46	-48): Read the	information cal	refully to answe	r the question.
					of Delhi. Three food
				ration. They are	
	The ratio	of students who	visited only X	to that of only Y	' is 4:5. Students who
	visited Z is 35	and the number	r of students wh	no visited all thre	ee is 6. The number of
					f students who visited
				who visited more	
46.					X and only Y together
		of students wh			realist of the second
	1) 4:5			4) 3:5	5) 11.5
47.					it of the total number
47.				e is wriat percer	it of the total number
	of Students wi	no visited only 2	<b>X</b> (	4) 40	T)
4.0	1) 10	2) 20	3) 30	4) 40	5) 50
48.			o visited Y is v	what percent of	the total number of
	students who	visited Z?			
	1) 120	2) 130	3) 140	4) 150	5) 160
49.	Jaya &Shivan	i invested Rs. 50	000 & Rs. 6000	respectively in	a business. After six-
	month Riya jo	in the business	with a capital o	f Rs. 3000 and J	Jaya left the business.
					of Jaya & Riya is Rs.
		l the profit shar			3
	1) 3000	2) 2400	3) 4200	4) 3600	5) 1200
50.	If the ratio of	radius to height	of a cylinder is	5.7: 6 and the c	curved surface area of
	the cylinder is	$1056 \text{ cm}^2$ th	en find the tota	al surface area d	of cylinder?
	1) 2218 cm <sup>2</sup>	2) 2228 cm <sup>2</sup>	3) 2248 cm <sup>2</sup>	4) 2288	5) 2268 cm <sup>2</sup>
51.					remaining income he
J 1.	•		•		<u> </u>
	coorde 100/ o	n food 200/ on	$\frac{2}{2}$	amount be give	s to his mother If the
	spends 10% 0	11 1000, 30% 011	traverand $\frac{-}{5}$ th	amount he give	s to his mother. If the
	difference bety	ween amount he	e spends on tra	ivel & amount h	e gives to his mother
		then find the m			9
	1) 120000	2) 140000	3) 150000	4) 180000	5) 130000
52.					s two hours less than
					the speed (in km/hr)
	of bike?	os min alotanoo,	541 5576		5 5 5 5 5 (11 1 1 1 1 1 1 1 1 1 1 1 1 1
	1) 50	2) 45	3) 36	4) 54	5) 27
	1, 50	<u> </u>	3) 30	1) 57	0, 21

53. The ratio of present age of Aman to that of David is 2:5 and after ten years the sum of their age will be 69 years. Find the difference between present ages of Aman& David?

1) 14 years 2) 21 years

- 3) 17 years
- 4) 19 years
- 5) 7 years
- 54. A vessel contains a total 95 liter mixture of milk & water in the ratio of 15: 4 respectively. X liter mixture of mixture taken out from the vessel and 18 liters water added in the remaining mixture, then the new ratio of milk to water becomes 3: 2, find the value of X?

1) 9.5

- 2) 57
- 3) 27.5
- 4) 19
- 5) 38
- 55. The ratio of speed of a boat downstream to upstream is 5 : 3 and total time taken by boat to cover 30 km distance in upstream is 5 hours. Find the time taken by boat to cover 40 km downstream.

1) 4 hours

- 2) 6 hours
- 3) 8 hours
- 4) 2 hours
- 5) 3 hours
- 56. A man invested Rs. 8000 in each schemes A & B. Scheme A offers simple interest at the rate of 9% p.a. for three years, while scheme B offers simple interest at the rate of 8% p.a. for four years. Find the total interest (in Rs.) get by the man from both schemes?

1) 4700

- 2) 4760
- 3) 4780
- 4) 4520
- 5) 4720
- 57. A can do 25% of a work in 7 days, while B can do  $\frac{2}{7}$ th of the same work in 12

days. A and B start working together and after 12 days both replace by C, who complete the remaining work in three days. Find in how many days C can complete the same work alone?

1) 6.5 days

- 2) 7.5 days
- 3) 8.5 days
- 4) 10.5 days
- 5) 12.5 days
- 58. A shopkeeper sold a table at 20% profit and a chair at a profit of 25%. If the cost price of the chair is equal to the selling price of the table and the shopkeeper earned an overall profit of Rs. 400, then find the sum of the selling price of both the articles together?

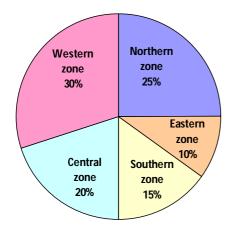
1) 2160

- 2) 1760
- 3) 1960
- 4) 2260
- 5) 2460

**Directions (59-63):** Study the charts given below carefully and answer the following questions.

Pie chart shows the percentage distribution of total students (Science +Commerce) in 12<sup>th</sup> class of five different Zones and table shows the number of students in same class in science of same zones.

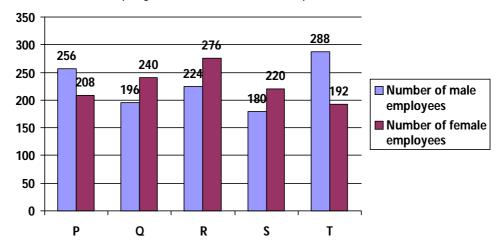
## **Total students 4000**



Zone name	Students in Science		
Northern	400		
Eastern	310		
Southern	430		
Central	600		
Western	750		

- 59. Number of students of commerce stream in Northern Zone is what Percent more or less than the number of total students in Southern Zone?
  - 1) 20%
- 2) 15%
- 3) 5%
- 4) 0%
- 5) 12.5%
- 60. Number of Commerce students in a Western zone is how much less than Science students in Northern zone, Eastern zone and Southern zone together?
  - 1) 660
- 2) 770
- 3) 630
- 4) 730
- 5) 690
- 61. If the monthly library fee per student in Central zone for commerce students is Rs.60 which is Rs.20 less than that for science students, then find the total monthly fee of a library in Central zone?
  - 1) Rs.60000
- 2) Rs.45000
- 3) Rs.42000
- 4) Rs.54000
- 5) Rs.63000
- 62. If the Western zone also has Arts students and the ratio of sum of students of science and commerce in western zone and Arts students in western zone is 5 : 7, then find Arts students in western zone are how much more than commerce students in Southern zone?
  - 1) 1590
- 2) 1430
- 3) 1510
- 4) 1620
- 5) 1690
- 63. Find the ratio of science students in Western Zone to Commerce students in the eastern zone?
  - 1) 7:1
- 2) 22 : 9
- 3) 21 : 8
- 4) 17 : 5
- 5) 25 : 3

**Direction (64-68):** The Bar graph given below shows the data regarding number of male and female employees in different companies.



## Note:

 $\overline{\text{Number of unmarried employees}} = (p+q)/r$ 

Where p = number of male employees in each company

q= number of female employees in each company

r= one-fourth of the number of team leaders in each company

Some information is also given, the number of team leaders in company P is equal to the difference between the number of female employees in company P and Q. The respective ratio of the number of team leaders in company R and S is 2:1 and the sum of the number of team leader in company P and S is 52. The number of team leaders in company T is 80% of the number of team leaders in company R.

Number of team leaders in company Q is  $\frac{1}{15}$ th of the number of female employees in the same company.

64. The number of male employees who married from company T is 25% more than the number of male employees who married from college R. Find the number of female employees who are unmarried from company T, if the number of team

leaders in company T are  $33\frac{1}{3}\%$  more than the number of male employees who

are unmarried from company R?

1) 12 2) 16 3) 18 4) 20 5) 22

65. The respective ratio of the number of males to female employees in company S who are married is 3:5 and the difference between the number of male employees from company Q and S who are unmarried is \_\_\_\_. If the total 411 female employees from companies Q and S who married, then which of the following value is possible for the given blank?

66. In company R and S, the number of employees who married, if only 74% and 65% of respective employees have a passport, then what is the difference between the number of employees who do not have passports among employees who married from company R and S together and number of employees in company Q who are unmarried?

1) 120 2) 140 3) 100 4) 80 5) 150

67. In company U, if the number of female employees is equal to the average number of female employees in company P and R together, the number of male employees is equal to the average number of male employees in company Q and T together and the number of team leaders are 50% of the number of team leaders in company P, then how many employees from company U who are married?

1) 321 2) 363 3) 245 4) 126 5) 222

68. Find the average number of employees who are married from all companies together except company Q?

1) 399 2) 321 3) 278 4) 225 5) 176

69. The base of the triangle is equal to the breadth of the rectangle and the height of the triangle is 3m less than the length of the rectangle. The area of the triangle and that of the rectangle is 36m² and 96m² respectively. then find the perimeter of the rectangle?

1) 40 2) 35 3) 42 4) 36 5) 54

70. Two pipes A and B can fill together a tank in 16 minutes, 14 minutes respectively. If both pipes are opened together and after 4 minutes pipe A is closed, find the total time in which tank will be filled?

1)  $10\frac{1}{2}$  2)  $11\frac{3}{4}$  3)  $12\frac{3}{4}$  4) 14 5) 14 ½

**KEY** 

41.5 42.4 45.5 46.2 47.3 48.1 49.5 43.2 44.5 51.2 52.2 54.5 55.1 56.5 57.4 58.1 59.4 60.5 53.2

61.1 62.3 63.5 64.5 65.3 66.1 67.2 68.1 69.1 70.1