

## SECTION-WISE QUANT SET FOR SIDBI EXAM

### QUANTITATIVE APTITUDE

**Directions (51-55):** Each of the questions below consists of a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statements are sufficient to answer the questions. Read both the statements and give answer:

- 1) if the data in statement I alone are sufficient to answer the question, while the data in statement II alone are not sufficient to answer the question.
  - 2) if the data in statement II alone are sufficient to answer the question, while the data in statement I alone are not sufficient to answer the question.
  - 3) if the data either in statement I alone or in statement II alone are sufficient to answer the question.
  - 4) if the data even in both the statements I and II together are not sufficient to answer the question.
  - 5) if the data in both the statements I and II together are necessary to answer the question
51. 3 men and one woman can complete a piece of work in 4 days. How many days will it take for 2 women and 2 men to complete the same work?  
I. 5 women can complete the same piece of work in 4 days  
II. 2 men and one woman together can complete the same piece of work in 5 days.

**Directions (56-60)** Following table shows the number of items (in thousands) produced by four different companies (A, B, C and D) and the ratio of sold(S) to unsold (US) items among them.

Company	A		B		C		D	
Year	Total	S : US	Total	S : US	Total	S : US	Total	S : US
2006	45.5	4:03	64.8	5:03	42.14	4:03	50	3:02
2007	48.6	5 : 4	70.15	3:02	49.5	4:05	52.7	8:09
2008	40	2 : 3	77.11	5:06	51	9:08	56.4	1:01
2009	55	3 : 2	86.4	5:03	54	1:01	51	2:01
2010	64.4	3 : 4	85	8:09	66.22	6:05:00	60.5	2:03
2011	68	5 : 3	81.18	5:04	66.8	5:03	62.1	3:02

56. What is the number of items sold by Company A in all six years together? (Answer options are in thousands)  
1) 168.4      2) 171.6      3) 172.1  
4) 173.2      5) None of these
57. What is the average number of items produced by Company D in all six years (Answer options are in thousands).  
1) 54.25      2) 55.45      3) 56.75  
4) 57.5      5) None of these
58. The number of items sold by Company D in the year 2009 is what percentage of the number of items which remain unsold by Company D in the year 2006?  
1) 58.82%      2) 80%      3) 120%  
4) 150%      5) 170%

52. What is the absolute difference between two numbers?  
I. 60% of the bigger number is equal to the smaller number.  
II. Half of the bigger number is 5 less than the smaller number.
53. Gulraj borrowed a sum of money at CI. What will be the rate of interest?  
I. The amount borrowed is 10 times of the SI in two years at the same rate of interest.  
II. Simple interest fetched on the same sum and same rate of interest at the end of four years is Rs. 1200.
54. A shopkeeper marked the price of an article and gave a discount of 20%. Find the marked price of the article.  
I. The cost price of the article is Rs. 2500.  
II. After giving the discount the shopkeeper gets 28% profit.
55. How many minutes per hour does a person stop?  
I. Without any stoppage a person travels a certain distance at an average speed of 80 km/hr.  
II. The speeds without stoppage and with stoppage are in the ratio of 4 : 3.

59. The number of items which remain unsold by Company C in 2008 is what percentage more or less than the number of items which are sold by Company B in the year 2010?  
1) 16%      2) 24%      3) 32%  
4) 40%      5) 48%
60. What is the difference between the total items sold and the total items that remain unsold by Company D in all six years together?  
1) 24220      2) 25640      3) 26380  
4) 27550      5) None of these

**Direction (125-129):** In each of the following question two equations are given. You have to solve them and give answer.

- 1) If  $p < q$       2) if  $p > q$   
3) if  $p \leq q$       4) if  $p \geq q$

- 5) if  $q = p$  or the relationship can't be established.
61. I.  $p^2 - 7p = -12$  II.  $q^2 - 3q + 2 = 0$   
 62. I.  $12p^2 - 7p = -1$  II.  $6q^2 - 7q + 2 = 0$   
 63. I.  $p^2 + 12p + 35 = 0$  II.  $2q^2 + 22q + 56 = 0$   
 64. I.  $p^2 - 8p + 15 = 0$  II.  $q^2 - 5q = -6$   
 65. I.  $2p^2 + 20p + 50 = 0$  II.  $q^2 = 25$
66. The radii of the bases of cylinder and a cone are in the ratio of 5 : 4 and their heights are in the ratio 4 : 5. Find the ratio of their volumes.  
 A. 5 : 4 B. 4 : 15 C. 15 : 4  
 D. 4 : 5 E. None of these
67. There are 3 red balls, 4 blue balls and 5 white balls. 2 balls are chosen randomly. Find probability that 1 is red and the other is white.  
 A. 5/22 B. 5/23 C. 7/22  
 D. 4/9 E. None of these
68. A does a work in 15 days, and B does the same work in 16 days. A and B started the work, and after 6 days B left. A completed the remaining work. Find the total number of days after which the work will be completed?  
 A. 7 days B.  $8\frac{3}{4}$  days C. 9 days  
 D.  $9\frac{3}{8}$  days E. None of these
69. A man can row  $9\frac{3}{5}$  km/hr in still water and he finds that it takes him twice as much time to row up than as to row down the same distance in river. The speed (km/hr) of the current is  
 A. 2 B.  $2\frac{1}{2}$  C.  $3\frac{1}{5}$   
 D. 5 E. None of these
70. A bike during a fog passes a man who was walking at the rate of 3 km/hr in the same direction. He could see the bike for 4 min and it was visible to him up to a distance of 100m. What was the speed of the bike?  
 A.  $4\frac{1}{3}$  km/hr B.  $4\frac{2}{3}$  km/hr C.  $4\frac{1}{2}$  km/hr  
 D. 4 km/hr E. None of these
71. A train normally covers a certain distance at a speed of 60 km/hr. However, if it were to halt for a fixed time interval in each hour its average speed reduced to 50 km/hr. What is the time interval for which the train halt in each hour?  
 (a) 10 minutes (b) 20 minutes (c) 6 minutes  
 (d) 12 minutes (e) none of these
72. The average age of all the 100 employees in an office is 29 years, where  $\frac{2}{5}$  employees are ladies and the ratio of average age of men to women is 5 : 7. The average age of female employees is:  
 (a) 18 years (b) 35 years (c) 25 years  
 (d) 30 years (e) none of these
73. In the 75 liters of mixture of milk and water, the ratio of milk and water is 4 : 1. The quantity of water required of make the ratio of milk and water 3 : 1 is:  
 (a) 1 litre (b) 3 litres (c) 4 litres  
 (d) 5 litres (e) none of these
74. Rs. 69 were divided among 115 students so that each girl gets 50 paise less than a boy. Thus each boy received twice the paise as each girl received. The no. of girls in the class is:  
 (a) 92 (b) 42 (c) 33  
 (d) 23 (e) 48
75. A and B are partners in a business. They invest in the ratio 5 : 6, at the end of 8 months A withdraws. If they receive

profits in the ratio of 5 : 9, find how long B's investment was used?

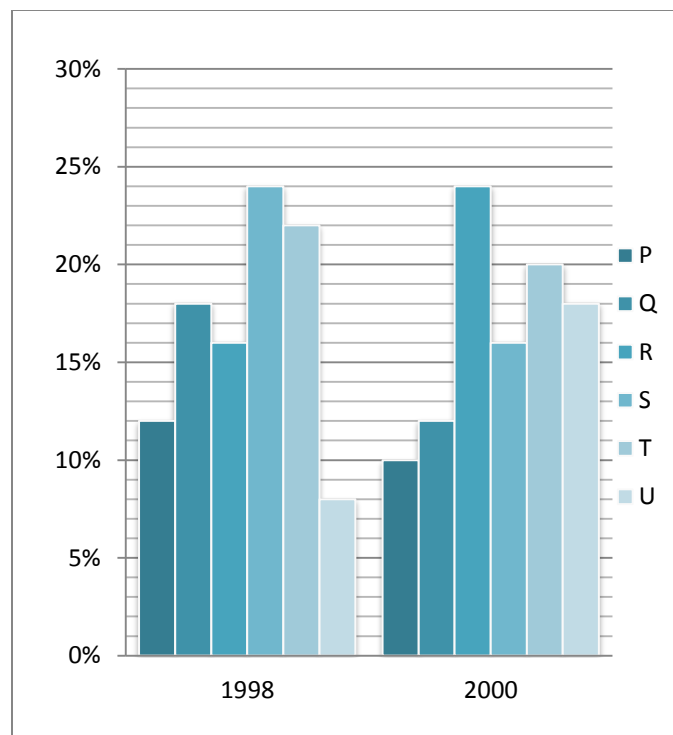
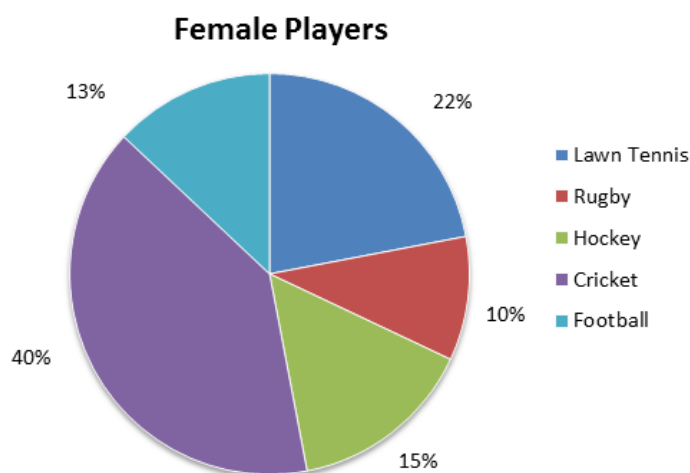
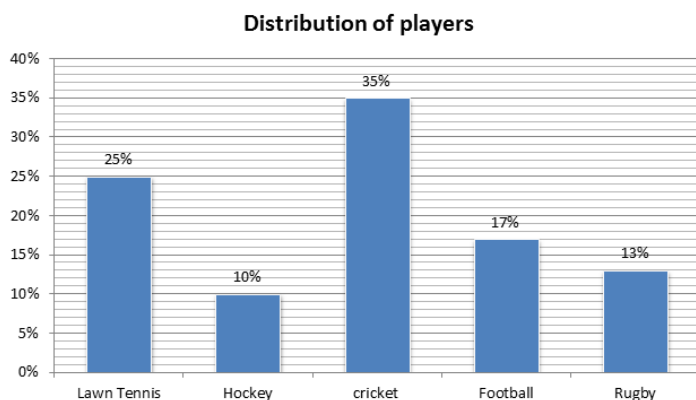
- (a) 12 months (b) 10 months (c) 15 months  
 (d) 14 months (e) 18 months

**Direction (76-80) :** In a sports event there are three categories of race (100 m, 200 m, 400 m). Total 200 athletes participated in that event. The number of athletes who participated only in 100m race is 30% of total number of athletes, and among them  $\frac{1}{3}$ rd are females. Number of athletes who participated in 200m race only is 15% of total number of athletes and among them 40% are females. Number of athletes who participated only in 400m race is  $\frac{1}{4}$  of total number of athletes and among them half are females. Number of athletes who participated in 100m and 200m race but not in 400m race is  $\frac{1}{10}$  of total number of athletes and among them  $\frac{1}{4}$  are females. Number of athletes who participated in 100m and 400 m race but not in 200 m is 7.5% of total number of athletes and among them  $\frac{8}{15}$  are females. Number of athletes who participated in all three categories is  $\frac{1}{20}$  of total number of athletes and among them  $\frac{1}{5}$  are females. Number of female athletes who participate 200m and 400 m race but not in 100m race is  $\frac{8}{15}$  of rest.

76. What is the number of female athletes who participated in exactly two categories of race?  
 1) 20 2) 21 3) 23  
 4) 24 5) 25
77. What is the difference between the total number of male athletes and the number of female athletes who participated in exactly one category?  
 1) 61 2) 63 3) 65  
 4) 67 5) 69
78. What is the ratio of the total number of athletes who participated in 200m and 400m race but not in 100m race to the male athletes among them?  
 1) 15 : 11 2) 15 : 8 3) 15 : 7  
 4) 15 : 13 5) 8 : 7
79. What is the number of male athletes who participated in at most two categories of race?  
 1) 104 2) 106 3) 108  
 4) 110 5) 112
80. The number of male athletes who participated in all three categories of race is what percentage of total number of female athletes?  
 1) 10% 2) 20% 3) 30%  
 4) 40% 5) None of these

**Directions (Q. 81-85):** Study the following pie-chart carefully to answer these questions: Percentage wise distribution of players who play five different sports.

Total players are 4200, out of which female players are equal to 2000



81. What is the average number of players (both male and female) who play Football and Rugby together?

- 1) 620      2) 357      3) 230  
4) 630      5) None of these

82. What is the difference between the number of female players who play Lawn Tennis and the number of male players who play Rugby?

- 1) 94      2) 84      3) 220  
4) 240      5) None of these

83. What is the ratio of the number of female players who play Cricket to the number of male players who play Hockey?

- 1) 20 : 7      2) 4 : 21      3) 20 : 3  
4) 3 : 20      5) None of these

84. What is the total number of the male players who play Football, Cricket and Lawn tennis together?

- 1) 1,724      2) 1,734      3) 1,824  
4) 1,964      5) None of these

85. The number of male players who play Rugby is approximately what percentage of the total number of players who play Lawn Tennis?

- 1) 33      2) 39      3) 26  
4) 21      5) 43

**Directions (86-90):** Study the following graphs which show the number of workers of different categories of a factory for two different years. The total number of workers in 1998 was 2000 and in 2000 was 2400.

86. In which of the categories is the number of workers same in both the year?

- (1) P      (2) S      (3) R  
(4) T      (5) U

87. Find the percentage increased in the number of workers in categories U in 2000 from 1998.

- (1) 125%      (2)  $133\frac{1}{3}\%$       (3) 150%  
(4)  $166\frac{1}{3}\%$       (5) 170%

88. What is the total number of increased workers for the categories in which the number of workers has been increased?

- (1) 568      (2) 382      (3) 408  
(4) 168      (5) 525

89. Which categories have shown decrease in the number of workers from 1998 to 2000?

- (1) P      (2) Q and S      (3) R and S  
(4) T      (5) U and Q

90. Find the maximum difference between the number of workers of any two categories taken together for any one year and that of any two for the other year.

- (1) 656      (2) 416      (3) 636  
(4) 392      (5) 450

91. A card is drawn from a pack of 52 cards. The probability of getting a queen of club or a king of heart is:

- A.  $\frac{1}{13}$       B.  $\frac{2}{13}$       C.  $\frac{1}{26}$   
D.  $\frac{1}{52}$       E. None of these

92. A bag contains 4 white, 5 red and 6 blue balls. Three balls are drawn at random from the bag. The probability that all of them are red, is:

- A.  $\frac{1}{22}$       B.  $\frac{3}{22}$       C.  $\frac{2}{91}$   
D.  $\frac{2}{77}$       E. None of these

93. Two cards are drawn together from a pack of 52 cards. The probability that one is a spade and one is a heart, is:

- A.  $\frac{3}{20}$       B.  $\frac{29}{34}$       C.  $\frac{47}{100}$

- D. 13/102                      E. None of these
- 94.** One card is drawn at random from a pack of 52 cards. What is the probability that the card drawn is a face card (Jack, Queen and King only)?  
 A. 1/13                      B. 3/13                      C. 1/4  
 D. 9/52                      E. None of these
- 95.** A bag contains 6 black and 8 white balls. One ball is drawn at random. What is the probability that the ball drawn is white?  
 A. 3/4                      B. 4/7                      C. 1/8  
 D. 3/7                      E. None of these
- Directions (96-100) :** What should come in place of the question mark (?) in the following number series ?
- 96.** 1548                      516                      129                      43                      ?

- (1) 11                      (2) 10.75                      (3) 9.5  
 (4) 12                      (5) None of these
- 97.** 949 189.8 ? 22.776                      11.388 6.8328  
 (1) 48.24                      (2) 53.86                      (3) 74.26  
 (4) 56.94                      (5) None of these
- 98.** 121                      144                      190                      259                      ?                      466  
 (1) 351                      (2) 349                      (3) 374  
 (4) 328                      (5) None of these
- 99.** 14                      43.5                      264 ?                      76188  
 (1) 3168                      (2) 3176                      (3) 1587  
 (4) 1590                      (5) None of these
- 100.** 41 164 2624 ?                      6045696  
 (1) 104244                      (2) 94644                      (3) 94464  
 (4) 102444                      (5) None of these

