SWOT INSTITUTE
SETS
XI-TEST

Time : 1 hr.

1. In a survey of 400 students in a school, 100 were listed as taking apple juice, 150 as taking orange juice and 75 were listed as taking both apple as well as orange juice. Find how many students were taking neither apple juice nor orange juice.

2. There are 200 individuals with a skin disorder, 120 had been exposed to the chemical C_1, 50 to chemical C_2, and 30 to both the chemicals C_1 and C_2. Find the number of individuals exposed to
   (i) Chemical C_1 but not chemical C_2
   (ii) Chemical C_2 but not chemical C_1
   (iii) Chemical C_1 and chemical C_2.

3. In a class of 35 students, 24 like to play cricket and 16 like to play football. Also, each student likes to play at least one of the two games. How many students like to play both cricket and football ?

4. A college awarded 38 medals in football, 15 inn basketball and 20 in cricket. If these medals went to a total of 58 men and only three men got medals in all the three sports, how many received medals in exactly two of the three sports ?

5. In a group of students, 100 students know Hindi, 50 know English and 25 known both. Each of the students knows either Hindi or English. How many students are there in the group ?

6. In a survey of 60 people, it was found that 25 people read newspaper H, 26 read newspaper T, 26 read newspaper I, 9 read both H and I, 11 read both H and T, 8 read both T and I, 3 read all three newspaper. Find :
   (i) The number of people who read at least one of the newspapers.
   (ii) The number of people who read exactly one newspaper.

7. In a survey it was found that 21 people liked products A, 26 liked product B and 29 liked product C. If 14 people liked products A and B, 12 people liked products C and A, 14 people liked products B and C and 8 liked all the three products. Find how many liked product C only.