Second Semester 2002/2003
STAT 105
<u>Test 1</u>

<u>Question 1</u>

The following are the weights of 10 suitcases selected at random by an airport officer.
23.9 , 25.0, 20.8, 19.3, 15.7, 15.4, 23.3, 19.8, 20.0 and 22.0
Find: a)   The mean
          b)   The median

<u>Question 2</u> :

The following are the distribution of the number of hours 80 students spent studing per week.

Class	Frequency
0-4	10
5-9	20
10-14	25
15-19	15
20-24	10

a) Calculate the standard deviation.
b) convert this distribution to a cumuletive or less.
c) Draw a histogram of the above distribution.

<u>Question 3</u> :

A student spend either 0, 1 or 2 hours excercising each day. Draw a tree diagram showing the number of hours he spends exercising consecutive nights. How many times does he exercise less than 3 hours in three consecutive hights.

<u>Question 4</u> :

Fill in the blanks each worth.

1-   The number of ways of arranging 3 books on a shelf is _____ .

2-   The number of ways of selecting a committee of 2 male and 3 female students
 out of a class containg 5 male and 15 female students is _____ .
    3- The mode of 3,3,5,3,3,2,2,1,5,7 is _____.
4-   If a die is rolled once and the possible numbers are 1,2,3,4,5,6 then the

        probability of getting an even number is _____.