Indian Statistical Institute, Bangalore

MS (QMS) First Year

First Semester - Statistical for Decision Making I

Midterm Exam   Date: September14, 2019

Maximum marks: 50   Duration: 2 hours

Note: Answer as much as you can. Maximum you can score is 50.
Use of calculator allowed.

1. The following data gives the Blood Cholesterol Levels of 40 students of
   a certain college :   [20]

213	174	193	196	220	183	194	200
192	200	199	200	178	183	188	193
187	181	193	205	196	211	202	213
216	206	195	191	184	194	171	191
221	212	221	204	204	191	183	227

   Construct the following using the above data:
   a) Dot Plot
   b) Histogram,
   c) Stem-and-Leaf Plot, and
   d) Box and Whisker Plot

2. The following is the data on height of 30 students (in Cm.):   [20]

166.5	165.5	165.1	169.2	164.1	165.7
170.2	167.5	168.4	165.9	167.1	168.1
166.8	162.9	167.8	161.2	167.5	164.9
166.4	162.1	168.0	165.0	166.1	167.7
163.6	165.6	165.6	162.1	168.8	164.2

   Find out The Mean, Standard Deviation, Mean Deviation, Skewness
   and Kurtosis.

3. Illustrate different ways of presenting Statistical Data.   [10]

4. What are different Parts of a Statistical Table? Illustrate.   [10]