HDQ-003-001112

Seat No. _____

B. Sc. (Sem. I) (CBCS) Examination

November / December – 2017

101 - Statistics

(Old Course)

Faculty Code : 003
Subject Code : 001112

Time : $2\frac{1}{2}$ Hours] [Total Marks : **70**

Instructions : (1) Each question carries equal marks.
(2) Students can use their own scientific calculator.

1 Give the answer to following question : (Each 1 mark) **20**

(1) Statistics deal with _____ information.

(2) Statistical data are collected for _____

(3) In an exclusive type distribution, the limits excluded are _____

(4) A series showing the sets of all values in classes with their corresponding frequencies is known as _____

(5) Caption stands for _____

(6) A simple table contains data on two characteristics _____.

(7) The class length of a class is 10 and the mid-value of is 45, find the lower limit of the class _____

(8) Pie diagram is _____ dimensional diagrams.

(9) Last cell address of the sheet in Microsoft Office Excel 2007 is _____

(10) First cell address of the sheet in Microsoft Office Excel 2007 is _____

(11) The past icon will not be active unless and until _____

(12) When you enter a text label general alignment is _____

(13) For the mid-values given : 25, 34, 43, 53, 61 and 70. The first class of the distribution is _____

(14) In a histogram with equal class intervals, heights of bar are proportional to _____

(15) Ogives for more than type and less than type distribution intersect at _____

(16) State Sterg's rule is _____

(17) Classification of students according to the marks of the certain subject is _____

(18) The presentation of classified data in tabular form is _____

(19) The _____ is the reference point for calculating the 'less than' cumulative frequency.

(20) In an inclusive series both the limits are _____.

2 (a) Write the answer any **three** (Each 2 marks) **6**

(1) Write two characteristics of Statistics.

(2) Define population and give one illustration.

(3) Explain sample inquiry with example.

(4) Explain exclusive classes with illustration.

(5) Define classification with illustration.

(6) Define tabulation.

(b) Write the answer any **three** : (Each 3 marks) **9**

(1) Write limitation of statistics.

(2) Explain cumulative frequency term with example.

(3) Write the advantage of classification.

(4) Write the short note: Bar diagram.

(5) Figures regarding the sales (in thousand rupees) of different items in a super mall and during four weeks are as follows :
228, 125, 100, 90, 115, 125, 230, 220, 130, 80, 95, 160, 180, 200, 200, 128, 120, 85, 185, 140, 265, 230, 135, 127, 100, 145, 150, 210

(6) Draw the percentage divided bar diagram for the data given below :

Age	Less than 15	15 to 35	35 to 60	More than 60	Total
Region A	480	360	240	120	1200
Region B	350	250	200	200	1000

(c) Write the answer any **two** : (each 5 marks) **10**

(1) Write the difference between primary and secondary data.

(2) Write the name different method of obtaining primary data and explain any one with advantages and disadvantages.

(3) State the source of secondary data.

(4) Explain different types of classification.

(5) Explain Bus network topology.

3 (a) Write the answer any **three** (Each 2 marks) **6**

(1) Define Class boundary points.

(2) Define sample and give one illustration.

(3) Explain population inquiry with example.

(4) Explain inclusive classes with illustration.

(5) Define frequency distribution. State its type.

(6) What is data? State its type.

(b) Write the answer any **three** : (Each 3 marks) **9**

(1) Explain discrete frequency distribution with example.

(2) Write the advantage of sample inquiry.

(3) Describe the method of frequency polygon with equal class length.

(4) Write the short note: Histogram diagram.

(5) On the basis of the study of different branches of a co-operative bank of Rajkot city, the following information is obtained. In this bank, out of 20 employees working as security person, 6 are females, out of 30 peons, 10 are females, out of 40 clerks, 25 are females and out of 8 managers, 3 are females. Express this information in a table.

(6) Obtain an exclusive continuous frequency distribution from the following data :

Less than weight (kg.)	30	35	40	45	50	55	60	65	70
Cumulative frequency	0	17	25	40	48	54	57	59	60

(c) Write the answer any **two** : (Each 5 marks) **10**

(1) Write difference between population inquiry and sample inquiry.

(2) State the name of the methods of collecting of primary data and explain any one.

(3) Write the characteristics of an ideal questionnaire.

(4) Explain CPU of computer.

(5) Explain Star network topology.