

Gurudas College
STATISTICS [General]
Semester-I, Paper-CC1/GE1
Internal Assessment Exam, 2021-22

Timing: 12pm-12:30pm

Marks: 10

Attempt any 10 of the following questions

1. (a) What do you understand by attribute and variable? Give one example of each. (1)
- (b) Give the difference between cross-sectional data and time-series data. (1)
- (c) Define primary data with one example. (1)
- (d) **Select the correct option:**
Frequency densities are necessary for drawing-
 - (a) Ogive.
 - (b) Step diagram.
 - (c) Histogram.
 - (d) Column diagram. (1)
- (e) **TRUE/FALSE:** Mode is affected to a greater extent by fluctuations of sampling whenever comparing with mean. (1)
- (f) If the first quartile is 104 and quartile deviation is 8, then the third quartile is
 - (a) 120
 - (b) 130
 - (c) 126
 - (d) None of these. (1)
- (g) In purpose of the manufacture of ready made garments which measure of central tendency is used to find the ideal size? (1)
- (h) **TRUE/FALSE:** Standard deviation shows huge effect to change the sample. (1)

- (i) For a distribution of student's height, the quartile are 60.125, 61.345, 62.688. The absolute measure of skewness is:
(a) 0.321
(b) 0.312
(c) 0.132
(d) None of these. (1)
- (j) If for a distribution the difference of first quartile and median is greater than difference of median and third quartile then the distribution is classified as
(a) positively skewed.
(b) negatively skewed.
(c) symmetric
(d) incomplete the information . (1)
- (k) What do you mean by absolute moment? (1)
- (l) Write down the nature of correlation (positive, negative or zero) for the following Variables: -
(i) income and expenditure, (ii) Maths score and shoe-size. (1)
- (m) If $b_{xy} = -1.35$ and $b_{yx} = -0.6$, find the value of correlation coefficient r ? (1)
- (n) If a scatter diagram shows a straight line having positive slope, then what would be the value of r ? (1)
- (o) If the sum of squares of differences of ranks given by two judges, of 10 students is 33, then what is the value of Spearman's rank correlation coefficient? (1)