

Gurudas College

Internal Assessment 2021

Sem-III, Paper-CC7

Statistical Methods for Economics

ECOA

Time: 30 mins

Full Marks: 10

Answer any **Five** Questions:

2 X 5 =10

1. Mention the differences between Histogram and Vertical Bar Diagram
2. What are the probabilities of obtaining an odd number in the throw of a fair die?
3. In a group of 20 males and 5 females, 10 males and 3 females are service holders. What is the probability that a person selected at random from the group is a service holder, given that the selected person is a male?
4. The coefficient of correlation between two variables x and y is 0.28, their covariance is 7.6. If variance of x is 9, then find the s.d. of y.
5. What is an ogive? How would you draw an ogive?
6. Find the mean and standard deviation of a continuous random variable X having p.d.f

$$f(x) = \frac{4x}{5}, 0 < x \leq 1$$

$$= \frac{2}{5}(3 - x), 1 < x \leq 2$$

$$= 0 \text{ elsewhere}$$