

Mathabhanga College

Class Test 2022

Semester IV

Economics (Honours)

Paper Name-Statistical methods for economics -II

Core- 10

Time 1 hour

Full marks-20

1. Answer any five questions from the following.

1X5=5

- a) Laspeyre's index number formula satisfies
- i) time reversal test
 - ii) factor reversal test
 - iii) both time reversal and factor reversal test
 - iv) none of the test
- b) With which characteristic movement of a time series would you associate a decline in ice-cream sale during November to march.
- i) Trend
 - ii) Seasonal variation
 - iii) Cyclical fluctuations
 - iv) Irregular movement
- c) A table with all values of random variable and its corresponding probabilities is called
- i) Probability density function
 - ii) Probability mass function
 - iii) Probability distribution
 - iv) Cumulative probability function
- d) What is meant by sampling ?
- e) What do you mean by standard error?
- f) What is the value of skewness and kurtosis for a normal curve ?
- g) What is meant by random variable?

2. Answer any one questions from the following

5X1=5

a) Arithmetic mean and standard deviation of a binomial distribution are respectively 4 and $\sqrt{8/3}$. find the values of n and p .

b) A coin is tossed six times . What is the probability of obtaining i) two heads.ii) four or more heads?

3. Answer any one questions from the following

10X1=10

a)'Fisher's ideal index formula satisfies both time reversal and factor reversal test'-is the statement true ? prove.

b)Discuss the characteristics of binomial distribution.