# Mathabhanga College

### Class Test 2022

### **Semester IV**

## **Economics (Honours)**

## Paper Name-Statistical methods for economics.

SEC

Time 1 hour		Full marks-20
1. Answer any five questions from the following.		1X5=5
c) What is the probability of getting a number greater than 6 when a dice is thrown?		
i) .5		
ii).3		
iii)0		
iv)1		
b) Which of the following statement is true		
i)	For normal distribution mean=median =mode	
ii)	For normal distribution skewness =0, Kurtosis =0	
iii)	Both (i) and (ii) are correct	
iv)	None of the statement is true	
e) Extrapolation refers to		
v)	i) projection a value for the future	
vi)	ii) insertion of an intermediate value in the series.	
vii)	iii) calculation of mean value.	
viii)	iv)calculation of variance	
f) What is type-1 error		
i) What is conditional probability ?		
g) What is meat by unbiased estimator?		

j) What do you mean by critical region?

2. Answer any one question from the following.

- a)What is addition theorem of probability? Prove the theorem
- b) Show that if A and B are two independent event then A<sup>c</sup> and B<sup>c</sup> are also independent.
- 3. Answer any one question from the following.

10X1=10

- a)State the criteria of a good estimator. Give illustration.
  - b) ) What are the properties of standard normal distribution?