

UNIVERSITY OF NORTH BENGAL

B.A./B.Sc. Honours 4th Semester Examination, 2021

CC10-ECONOMICS (410)

STATISTICAL AND ECONOMETRIC

Full Marks: 60

ASSIGNMENT

The figures in the margin indicate full marks.

GROUP-A		
	Answer any two from the following questions	$20 \times 2 = 40$
1.	State and prove the Bayes' theorem of Conditional probability.	20
2. (a)	Find mean and standard deviation in case of Poisson distribution.	10+10=20
(b)	Show that the Poisson distribution is a limiting case of Binomial distribution.	
3. (a)	What are the assumptions of Classical Linear Regression Model?	10+10=20
(b)	Explain the properties of the Ordinary Least Square estimators.	
4.	Discuss the different methods of sampling.	20
GROUP-B		
	Answer any two from the following questions	$10 \times 2 = 20$
5.	Find out the mean and variance of Binomial distribution with parameters n and p.	10
6.	State the properties of random variable.	10
7.	Discuss the properties of Normal distribution.	10
8.	Write a short note on outcome, independent event, mutually exclusive events, equally likely events.	10

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