

U.G. 4th Semester Examination - 2021**STATISTICS****[PROGRAMME]****Course Code : STAT-G-CC-T-1D****(Applied Statistics)**

Full Marks : 20

Time : 1 Hour

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.**Notations and symbols have their usual meaning.*

1. Answer any **five** questions: $1 \times 5 = 5$
- Define Crude Death Rate.
 - Write down Edgeworth-Marshall index number formula. Does this formula satisfy any test?
 - What is the difference between process control and product control?
 - What is seasonal fluctuation in time series data?
 - What does GRR interpret?
 - What is consumer price index number?

g) What are chance causes and assignable causes of variation in a process?

h) Define purchasing power of money.

2. Answer any **one** question: $5 \times 1 = 5$

- Why it is necessary to choose proper weights to define an index number?
- Discuss the method of mathematical curve fitting to determine trend in a time series.
- What is the difference between 'defect' and 'defective'? Describe np chart in the context of process control.

3. Answer any **one** question: $10 \times 1 = 10$

- What is life table? Discuss the different columns of a complete life table.
- Discuss different steps of construction of consumer price index number for the working class people of a locality.
- Describe the components of a time series. Describe moving average method of determining the trend of a time series. How is the period of moving average found?

(Internal Assessment : 5)

[Turn over]