21ECO1C3L

Sl. No.

M.A. I Semester Degree Examination, April/May - 2024
ECONOMICS
Quantitative Techniques for Economics
(NEP)

Time : 3 Hours

Maximum Marks : 70

Note : *Answer* **any five** *of the following questions with question No.* **1 (Q.1)** *is* **Compulsory.** *Each question carries* **equal** *marks.*

14x5=70

1. (a) Explain the applications of descriptive and inferential statistics.

   (b) Explain the types of data.

2. (a) Explain the relative importance of averages.

   (b) Compute geometric mean for the following data.

Sl.No.	1	2	3	4	5	6
X	8	12	21	24	33	45

3. (a) Explain the meaning and types of correlation.

   (b) Compute Spearman's rank correlation for the following data.

Rank in Microeconomics	I	II	III	IV	V	VI
Marks in Statistics	65	68	63	71	60	58

4. (a) Define time series. Explain the components of time series.

   (b) Compute trend line for the following data using least square method.

Year :	2014	2015	2016	2017	2018	2019	2020
Price :	14	15	17	20	20	24	26

5. (a) Explain the basic concepts of hypothesis testing.

(b) Explain the traditional approach to testing of hypothesis.

6. (a) Compute coefficient of variation for the following data.

CI	0-10	10-20	20-30	30-40	40-50	50-60
f	5	20	35	25	10	5

(b) Estimate the impact of price of tomato on its demand.

Price of tomato (Rs.)	8	12	15	20	30	40
Demand (in kgs)	4	3.5	3	2	1	0.5

7. (a) Forecast the price of onion for the month of June 2024 using 2 period moving average :

Month	Jan 24	Feb 24	Mar 24	Apr 24	May 24	June 24
Price (Rs)	65	20	40	60	70	

(b) What do you mean by errors in testing of hypothesis ? Explain.

8. (a) Explain the types of Skewness and Kurtosis. **5**

(b) Give a note on goodness of fit. **4**

(c) Explain the steps in hypothesis testing. **5**

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