

Final Year T.D.C.(Arts) Examination, 2001

ECONOMICS

Paper - II

(Elements of Statistics)

Time : Three Hours

Maximum Marks : 100

Candidate have to attempt **five** questions from the following
All questions carry equal marks.

1. 'Statistics are like clay of which you can make a God or devil as you please.' Comment.
2. What are the requisites of a good table ? State the rules that serve as a guide in tabulating statistical material.
3. Find out Arithmetic Mean and Mode from the following data :

Marks (Less than) अंक (कम से कम)	No. of Students विद्यार्थियों की संख्या
80	50
70	45
60	40
50	30
40	16
30	10
20	7
10	3

4. Calculate Kari Pearson's Co-efficient of Skewness from the following data :

Variable (चर)	Frequency (आवृत्ति)
0-5	2
5-10	5
10-15	7
15-20	13
20-25	21
25-30	16
30-35	8
35-40	3

5. Ten students got the following percentage of marks in two subjects. Find the Co-efficient of Co-relation between the marks in the two subjects.

Roll No (रोज नं.)	X	Y
1	80	45
2	60	71
3	51	60
4	69	57
5	58	62
6	62	68
7	64	48
8	72	50
9	56	62
10	58	60

6. Interpolate by Lagrange's formula the national income for the year 1962 from the following data :

Year (वर्ष)	1960	1961	1962	1963	1964
National Income (राष्ट्रीय आय)	5112	6514	?	9069	9685

7. Treating 1969 as the base year, show with the help of the following data that both 'Time Reversal Test' and 'Factor Reversal Test' are satisfied by Fischer's Ideal Index Numbers.

Commodity (वस्तु)	1969		1972	
	Price (मूल्य)	Quantity (तादाद)	Price (मूल्य)	Quantity (तादाद)
A	10	3	15	3
B	4	15	4	12
C	6	2	6	4
D	8	8	12	6
E	6	4	6	12

8. An investigation into the demand for T.V. sets in 7 town has resulted in the following data :

Population in ('000) (जनसंख्या '000)	TV sets demanded (टी.वी. सेट की माँग)
X	Y
11	15
14	27
14	27
17	30
17	34
21	38
25	46

9. Why is sampling necessary in statistical investigations ? Explain the important methods of sampling commonly used.
10. How are area and field statistics of agricultural crops collected in India ? What are the shortcomings of agricultural statistics ? Suggest measures to remove them.