1.

Exam, Code : 103202 Subject Code : 1036

# B.A./B.Sc. Semester-II

Time Allowed—3 Hours] [Maximum Marks—100

- Note :- Attempt FIVE questions in all, Question No. 1 is compulsory and attempt ONE question from each of four units.
  - What are the limitations of statistics? (i)
    - (ii) What do you mean by tabulation of data?
    - (iii) Distinguish between skewness and kurtosis.
    - (iv) Distinguish between absolute and relative measures of dispersion.
- (v) What are the merits of median as a measure of central tendency?
  - (vi) Distinguish between linear and non-linear correlation.
  - (vii) Define rank correlation coefficient.
  - (viii) Comment on the following results obtained from given data :

Coefficient of regression of y on x is 4.2 and Coefficient of regression of x on y is 0.5

- (ix) What is meant by time series analysis?
- (x) What is Fisher's Ideal Index ? 2×10=20

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# UNIT-I

- 2. What do you mean by classification ? Discuss the objectives and advantages of classification of data. 20
- Explain the various methods that are used for graphical 3. presentation of data. 20

### UNIT-II

(a) Calculate Mean and Mode from the following data : 4.

Marks	10-20	10-30	10-40	10–50 97	
No. of Students	4	16	56		
Marks	10-60	10-70	10-80	10-90	
No. of Students	124	137	146	150	

Calculate the coefficient of Kurtosis from the following (b) data :

Marks	0-10	10-20	20-30	30-40	40-50	
Frequency	2	2	3	2	1	
A REALINE	DALLO	e preprint	AT STR H	ALL Y	10.10	

From the data given below, state which team A or B is 5. more consistent :

No. of goals scored	No. of Matches					
in a Match	Team A	Team B				
0	27	1				
P at a site 1 To noise by	9	5.				
0 2 10 10 10 10 10 10 10 10 10 10 10 10 10	8	8				
and 3 area and ve	5	9				
4	1	27				

20

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# UNIT-III

Find the Karl Pearson's coefficient of correlation 6. (a) from the following data :

X	64	65	66	67	68	69	70
Y	66	67	65	68	70	68	72

Find out rank correlation coefficient from the following (b) data :

A	115	109	112	87	98	98	120	100	98	118
B	75	73	85	70	76	65	82	73	68	80

10,10

- (a) What is regression line? Why are there generally 7. two regression lines?
  - From the data given below, find the two regression (b) equations :

X	25	28	35	32	31	36	29	28	34	32
Y	43	46	49	41	46	32	31	20	33	39

10.10

# UNIT-IV

- Explain various tests of consistency to be satisfied 8. (a) by a good Index number.
  - Calculate Laspeyre's, Paasche's and Fisher's Ideal (b) Index from the following data :

Commodity	Base	Year	<b>Current Year</b>			
Commonly	Price	Value	Price	Value		
A	10	100	8	96		
В	16	96	14	98		
C	12	36	10	40		
D	15	60	5	25		

10,10

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- Discuss various components of time series. (a) 9.
  - You are given below the figures of annual production (b) (in thousand tonnes) of a sugar factory :

Year	1978	1979	1980	1981	1982	1983	1984
Production	70	75	90	91	95	98	100

Fit a straight line trend by the method of least square and find the trend values. 10,10

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