Code:3102/R

Faculty of Social Science

B.A (Economics) II-Year, CBCS-III Semester Regular Examinations-Jan, 2023

PAPER: Statistics for Economics

Time: 3 Hours   Max Marks: 80

Section – A

I. Answer any *five* of the following questions   (5x4=20Marks)

1. What is a Frequency Distribution?
2. Explain the types of random sampling.
3. Define the arithmetic mean.
4. Explain the prosperities of Good Average.
5. What are the different types of Relative measures of Dispersion?
6. Explain the type of index numbers.
7. Define the components of time series.
8. Calculate the Spearmen correlation co-efficient from the below data
   Ranks in Economics: (R1): 6,1,5,2,4,3
   Ranks in History   : (R2): 3,1,4,2,5,6

Section –B

II. Answer the following questions   (5x12=60Marks)

9. (a) Explain the meaning and basic concepts of Statistic.
   (OR)
   (b) What are the data collecting methods.
10. (a) What is Central tendency? Explain different types of measures of Central tendency.
    (OR)
    (b) What are the different types of Relative Measures of Dispersions? Explain.
11. (a) Explain the methods of constructing Index Numbers.
    (OR)
    (b) Find the straight trendline by the least quare method from the following data.

Year	2011	2012	2013	2014	2015	2016	2017
Productin(Quintals)	80	90	92	83	94	99	92

12. (a) Analyze the Spearman's Rank Correlation Coefficient.
    (OR)
    (b) What are the uses of Regression analysis explain.
13. (a) Explain the components of time series and its uses.
    (OR)
    (b) Construct the index numbers of prices of items in the year 2012 from the Following data by Laspeyser, Paasche, and Fishers method form the following data.

Item	Prices(2017)	Quantity(2017)	Price(2018)	Quantity(2018)
X	4	50	10	40
Y	3	10	9	2
Z	2	5	4	5

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Faculty of Social Science
B.A. (Economics) II-Year, CBCS-III Semester
Backlog Examinations -June/July, 2022
PAPER: Statistics for Economics

Time: 3 Hours   Max Marks: 80

Section-A

I. Answer any *five* of the following   (5x4=20 Marks)

1. State the different types of diagrams
2. Define Median and mode
3. Explain Scatter diagram method
4. Difficulties in construction of index numbers
5. Explain Moving averages method
6. write any Four merits and demerits of Range
7. Basic concepts of statistics
8. Importance of Index numbers

Section-B

II. Answer the following questions   (5x12=60 Marks)

9. (a) Define Sampling? Explain the various methods of Sampling?

(OR)

(b) What is Secondary Data? Discuss the Sources of secondary data

10. (a) What is Quartile deviation? Describe its merits and demerits?

(OR)

(b) Calculate median from the following data.

Class interval	0-10	10-20	20-30	30-40	40-50
Frequency	8	10	15	6	2

11. (a) Define Correlation? Methods of studying or calculating correlation

(OR)

(b) Calculate Karl Pearson's coefficient of correlation from the following data.
   X: 8, 4, 12, 6, 10
   Y: 11, 13, 7, 10, 9

12. (a) Define index numbers? Explain the methods of constructing index numbers?

(OR)

(b). Construct price index numbers from the following data by using Fisher's method.

Goods	Price(2017)	Quantity(2017)	Price(2018)	Quantity(2018)
X	4	50	10	40
Y	3	10	9	2
Z	2	5	4	5

13. (a) Define time series analysis and explain the uses of time series analysis.

(OR)

(b) Explain methods of measuring seasonal variation

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Faculty of Social Science

B.A (Economics) II-Year, CBCS-III Semester Backlog Examinations –June, 2023

PAPER: Statistics for Economics

Time: 3 Hours   Max Marks: 80

Section – A

I. Answer any FIVE of the following questions   (5x4=20Marks)
1. Sources of Data
2. Define Geometric mean and Harmonic mean
3. Define rank correlation and its merits
4. State the uses of Index numbers
5. What are the components of time series
6. Concepts of statistics
7. Classifications of Index numbers
8. State the uses of analysis of time series

Section –B

II. Answer the following questions   (5x12=60Marks)
9. (a) Explain the various methods of collecting primary data.

(OR)

(b) Discuss the different methods of sampling

10.(a) Describe the methods of measuring central tendency.

(OR)

(b) Find arithmetic mean for the data given below.

Size of deposits	0-100	100-200	200-300	300-400	400-500	500-600	600-700	700-800	800-900
No. of deposits	25	100	175	74	66	35	28	152	21

11.(a) Define correlation and explain the various types of correlation.

(OR)

(b) Calculate the coefficient of correlation from following data.

X	12	9	8	10	11	13	7
Y	14	8	6	9	11	12	3

12.(a) Enumerate the problems in the construction of Index numbers.

(OR)

(b) Construct the laspeyeres index number with suitable example.

13.(a) Define time series and explain the uses of analysis of time series.

(OR)

(b) Write a detailed note on the components of time series analysis.

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