

# **KAMARAJ COLLEGE (Autonomous)**

Accredited with A+ Grade by NAAC

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli)

THOOTHUKUDI – 628 003

**( 5 Pages)**

Reg. No: .....

**Question. Code No : 2400012**

**Sub Code 24UMEC12**

**UG Degree - End Semester Examinations, November 2024**

**First Semester**

**B.A. Economics**

**Major - STATISTICS FOR ECONOMICS - I**

**(For those who joined in July 2024 onwards)**

**Time : 3Hours**

**Maximum : 75 Marks**

## **PART A – (10 × 1 = 10 Marks)**

Answer ALL Questions

Choose the correct answer :

1. Which of the following is the function of statistics?
  - a) Comparison
  - b) Predict future
  - c) Formulate policies
  - d) All the above
2. Which of the following is a branch of statistics?
  - a) Descriptive statistics
  - b) Inferential statistics

- c) Industry statistics                      d) Both A and B
3. To which of the following options do individual respondents, focus groups, and panels of respondents belong?
- a) Primary data sources              b) Secondary data sources  
c) Itemised data sources              d) Pointed data sources
4. The cumulative frequency curve is also called \_\_\_\_\_
- a) Ogive                                      b) Pictogram  
c) Bar Diagram                              d) Median
5. The sum of the lower limit of the modal class and the upper limit of the median class is \_\_\_\_\_
- a) 315    b) 310  
c) 320    d) 330
6. What is the class mark of the class interval 90-120?
- a) 115    b) 90  
c) 105    d) 125
7. If the variance of the data is 121, the standard deviation of the data is \_\_\_\_\_
- a) 5    b) 15  
c) 25    d) 35
8. Range of a data is equal to \_\_\_\_\_
- a) Range = Largest Value - Smallest Value  
b) Range = Smallest Value + Largest Value  
c) Range = (Max Value - Min Value)/2  
d) Range = (Max Value + Min Value)/2
9. If the values of two variables move in the opposite direction, \_\_\_\_\_
- a) The correlation is said to be linear  
b) The correlation is said to be non-linear  
c) The correlation is said to be positive  
d) The correlation is said to be negative

10. The independent variable is used to explain the dependent variable in \_\_\_\_\_
- a) Linear regression analysis
  - b) Multiple regression analysis
  - c) Non-linear regression analysis
  - d) correlation

**PART - B (5X5=25 Marks)**

**Answer ALL Questions choosing either (a) or (b).**

**Answer should not Exceed 250 words.**

11. a) Write down the nature of statistics.

**(OR)**

- b) Mention the requisites to prepare a Good questionnaire.

12. a) State the uses of tabulation.

**(OR)**

- b) Write down the merits and limitations of diagrammatic representations.

13. a) What are the requisites of a Good Average?

**(OR)**

- b) Calculate mode value for the following data.

X	20-30	30-40	40-50	50-60	60-70	70-80	80-90
f	3	8	14	20	8	5	2

14. a) Calculate quartile deviation for the following data.

X	30	40	50	60	70	80
f	2	6	10	8	3	2

**(OR)**

- b) Calculate mean deviation from median for the following data.

X	5	6	7	8	9	10
f	2	4	6	3	2	3

15. a) What are the types of correlation?

**(OR)**

- b) Difference between correlation and regression analysis.

**PART C - (5 × 8 = 40 Marks)**

**Answer ALL Questions choosing either (a) or (b).**

**Answer should not Exceed 500 words.**

16. a) Describe the methods of collecting primary data.

**(OR)**

- b) Discuss the uses of statistics.

17. a) Analyze the types of classification.

**(OR)**

- b) Examine the types of diagrams with examples.

18. a) Calculate arithmetic mean for the following data.

X	20-30	30-40	40-50	50-60	60-70	70-80
f	5	8	12	15	6	4

**(OR)**

b) Calculate median value for the following data.

X	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90
f	5	7.5	7.5	10	10	10	4	4	2

19. a) Calculate standard deviation for the following data.

X	6	7	8	9	10	11	12
f	3	6	9	13	8	5	4

**(OR)**

b) Elucidate the different measure of skewness.

20. a) Evaluate the methods of studying Correlation.

b) From the following data obtain the regression equation of X on Y, and also that Y on X.

X	6	2	10	4	8
Y	9	11	5	8	7