

**KAMARAJ COLLEGE (Autonomous)**  
Accredited with A+ Grade by NAAC  
(Affiliated to Manonmaniam Sundaranar University, Tirunelveli)  
THOOTHUKUDI - 628 003

**(6 Pages)**

**Reg. No: .....**

**Question. Code No : 25E00107**

**Sub Code : 24UMEC12**

**UG Degree - End Semester Examinations , April 2025**

**First Semester**

**B.A. ECONOMICS**

**Major - Statistics For Economics - I**

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

**Time : 3 Hours**

**Maximum : 75 Marks**

**PART - A (10 × 1 = 10 Marks)**

**Answer ALL Questions**

**Choose the correct answer :**

1. Data that are collected or sourced from the internet is called \_\_\_\_\_
  - (a) Documentary sources of data
  - (b) Internal secondary sources of data

- (c) External secondary sources of data  
(d) All of the above
2. Which one is the true example of primary data from the following options?
- (a) Journal (b) Book  
(c) Census Report (d) Newspaper
3. Classification of data according to location or areas is called \_\_\_\_\_
- (a) Qualitative classification  
(b) Quantitative classification  
(c) Geographical classification  
(d) Chronological classification
4. Total angle of the pie-chart is \_\_\_\_\_
- (a)  $45^{\circ}$  (b)  $90^{\circ}$   
(c)  $180^{\circ}$  (d)  $360^{\circ}$
5. Mode refers to the value within a series that occurs \_\_\_\_\_ number of times.
- (a) Maximum (b) Minimum  
(c) Zero (d) Infinite
6. \_\_\_\_\_ divides the data into four equal parts.
- (a) Median (b) Quartiles  
(c) Mean (d) Standard Deviation



(b) What are the sources of secondary data?

12. (a) What are the characteristics of diagrams?

**(OR)**

(b) Define Ogive curve.

13. (a) Find the mean for the following distribution.

$x_i$	15	21	27	30	35
$f_i$	3	5	6	7	8

**(OR)**

(b) The following data attained from a garden records of certain period. Calculate the median weight of the apple

Weight in grams	410-420	420-430	430-440	440-450	450-460	460-470	470-480
Number of apples	14	20	42	54	45	18	7

14. (a) Find the quartiles and quartile deviation of the following data: 17, 2, 7, 27, 15, 5, 14, 8, 10, 24, 48, 10, 8, 7, 18, 28

**(OR)**

(b) Distinguish between mean deviation and standard deviation.

15. (a) Define correlation.

**(OR)**

(b) What are the uses of regression analysis?

**PART - C (5 X 8 = 40 Marks)**

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

**Answer should not exceed 500 words.**

16. (a) Describe the requisites of good questionnaire

**(OR)**

(b) Examine the methods of collecting primary data.

17. (a) Analyse the types of tabulation.

**(OR)**

(b) Elucidate the graphical representation in detail.

18. (a) Calculate Arithmetic Mean for the following continuous data –

<b>Items</b>	0-10	10-20	20-30	30-40
<b>Frequency</b>	2	5	1	3

**(OR)**

(b) Calculate the median for the following distribution.

<b>Class</b>	40-	45-	50-	55-	60-	65-
<b>Interval</b>	44	49	54	59	64	69
<b>Frequency</b>	1	5	9	12	7	2

19. (a) For a distribution Karl Pearson's coefficient of skewness is 0.64, standard deviation is 13 and mean is 59.2 Find mode and median.

**(OR)**

(b) Calculate the second coefficient of skewness for the following data. 1, 2, 3, 4, 5, 6, 7, 8, 9, 9

20. (a) From the following information calculate line of regression of Y on X:

	x	Y
Mean	<b>40</b>	<b>60</b>
Standard Deviation	<b>10</b>	<b>15</b>
Correlation coefficient	<b>0.7</b>	

**(OR)**

(b) Calculate rank correlation coefficient from the following data:

X	68	78	89	97	69	59	79
Y	125	137	156	112	107	136	124