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Reg. No. : .....

**Code No. : 20928 E      Sub. Code : EMEC 12/  
FCEC 12**

B.A. (CBCS) DEGREE EXAMINATION,  
NOVEMBER 2024.

First Semester

Economics — Core

**STATISTICS FOR ECONOMICS – I**

(For those who joined in July 2023 onwards)

Time : Three hours

Maximum : 75 marks

**PART A — (10 × 1 = 10 marks)**

Answer ALL questions.

Choose the correct answer :

1. The Word 'statistics' derived from

- (a) Latin word
- (b) Italic word
- (c) German word
- (d) French word

2. Which one is the true example of primary data from the following options?

- (a) Journal                      (b) Book
- (c) Census Report      (d) Newspaper

3. Histogram is a \_\_\_\_\_

- (a) Table                      (b) Graph
- (c) Both                      (d) None

4. The Lorenz curve was developed by Max. O. Lorenz in \_\_\_\_\_

- (a) 1900                      (b) 1905
- (c) 1910                      (d) 1915

5. "Average is a value which is representative of a set of data" according to \_\_\_\_\_

- (a) Murry R. Speigal
- (b) Leabo
- (c) Bowley
- (d) Wallis

6. Mode refers to the value within a series that occurs \_\_\_\_\_ number of times

- (a) Maximum                      (b) Minimum
- (c) Zero                      (d) -1

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7. Which of the following are methods under measures of dispersion?

- (a) Standard deviation
- (b) Mean deviation
- (c) Range
- (d) All of these

8. Fourth moment about the mean :

- (a) Variance                      (b) Skewness
- (c) Kurtosis                      (d) None

9. Which of the following are types of correlation?

- (a) Positive and Negative
- (b) Simple and Partial
- (c) Linear and Non-linear
- (d) All of the above

10. In Regression variable 'X' is a \_\_\_\_\_

- (a) Random variable
- (b) Fixed variable
- (c) Both (a) and (b)
- (d) None of the above

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PART B — (5 × 5 = 25 marks)

Answer ALL questions choosing either (a) or (b).  
Each answer should not exceed 250 words.

11. (a) Explain the limitations of statistics.

Or

(b) State the requisites of Good questionnaire.

12. (a) Narrate the objects of classification.

Or

(b) Write a short note on Histogram.

13. (a) Mention the functions of an average.

Or

(b) Calculate mean from the following data.

Roll No :	1	2	3	4	5	6	7	8	9	10
Marks :	40	50	55	78	58	60	73	35	43	48

14. (a) Explain the purposes of measuring variation.

Or

(b) Find the Range from the following data.

27, 30, 35, 36, 38, 40, 43.

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15. (a) Explain the types of correlation.

Or

- (b) Write a short note on "Regression Equations".

PART C — ( $5 \times 8 = 40$  marks)

Answer ALL questions choosing either (a) or (b).  
Each answer should not exceed 600 words.

16. (a) Elucidate the importances of statistics.

Or

- (b) Discuss the tools for collecting primary data.

17. (a) Examine the types of diagrams.

Or

- (b) Enumerate the pros of Lorenz curve.

18. (a) Calculate mean, median and mode from the following frequency table of marks obtained by 22 students.

Marks :	Below 10	Below 20	Below 30	Below 40	Below 50
No. of students :	3	8	17	20	22

Or

- (b) Describe the measures of dispersion.

19. (a) Calculate standard deviation from the following data :

Marks : 10 20 30 40 50 60

No. of students : 8 12 20 10 7 3

Or

- (b) Distinguish between skewness and kurtosis.

20. (a) Distinguish between correlation and regression.

Or

- (b) The following table given the age of cars of certain make and annual maintenance costs. Obtain the regression equation for costs related to age.

Age : 2 4 6 8

Cost : 10 20 25 30

