B A DEGREE (CBCS)EXAMINATION, DECEMBER 2018

First Semester

B.A Corporate Economics Model III

Core Course - EC1CRT27 - ELEMENTARY STATISTICS FOR ECONOMICS - I

2018 Admission only

2E3F2216

Maximum Marks: 80   **Time: 3 Hours**

Part A

Answer any **ten** questions.

Each question carries **2** marks.

1. Meaning of Statistics

2. How is Statistics Misused?

3. Methods of Classification

4. What are the merits of Diagramatic representation of data?

5. What are Pictograms?

6. What is a Lorenz Curve?

7. What are the Merits of Median?

8. Find Mode of 40,25,60,40,35,81,60,40.

9. Merits of Quartile Deviation.

10. Define Decile.

11. Define Pearsons coefficient of Skewness.

12. What is Kurtosis and how it is measured?

(10×2=20)

Part B

Answer any **six** questions.

Each question carries **5** marks.

13. What are the objectives of Tabulation?

14. Represent the following by Histogram
    Marks: 10-15, 15-20, 20-25, 25-30, 30-35
    No. of Students: 5, 20, 47, 38, 10

15. Draw Frequency Curve.

    Marks: 10-20, 20-30, 30-40, 40-50, 50-60, 60-70

    No. of Students: 5, 9, 15, 20, 12, 7

16. Calculate the Weighted mean.

    Size: 5, 10, 15, 20, 25, 30

    Weighted: 8, 4, 5, 10, 7, 6

17. Find the missing frequency from the following data, given that Mean= 16.

    Marks:0-5, 5-10, 10-15, 15-20, 20-25, 25-30, 30-35

    f: 10,   12,   16,   ----,   14,   10,   8

18. Calculate Mean Deviation

    C.I: 0-10, 10-20, 20-30, 30-40, 40-50, 50-60, 60-70, 70-80

    F: 18,   16,   15,   12,   10,   5,   2,   2

19. Merits and demerits of Standard Deviation.

20. Explain Skewness and different types of Skewness.

21. Define Kurtosis and different types of Kurtosis.

$(6 \times 5 = 30)$

Part C

Answer any two questions.

Each question carries 15 marks.

22. Explain the scope of statistics in different field?

23. Find missing frequencies, given that Median=32.27 and the total frequency=100

    C.I:0-10, 10-20, 20-30, 30-40, 40-50, 50-60, 60-70, 70-80

    F: 15,   20,   10,   ------, 13,   10,   -----, 6

24. Calculate 7th Decile and 90th Percentile

    C.I:0-10, 10-20, 20-30, 30-40, 40-50, 50-60, 60-70, 70-80

    F: 15,   30,   53,   75,   100,   110,   115,   125

25. Calculate Bowleys coefficient of Skewness

    C.I: 10-20, 20-30, 30-40, 40-50, 50-60

    F: 18,   20,   30,   22,   10

$(2 \times 15 = 30)$