19103226

Reg No : ....

Name : ....

B A DEGREE (CBCS)EXAMINATION, NOVEMBER 2019

First Semester

B.A Corporate Economics Model III

Core Course - EC1CRT27 - ELEMENTARY STATISTICS FOR ECONOMICS - I

2017 Admission Onwards

CBFBF0B0

Time: 3 Hours

Maximum Marks :80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. Define Primary Data.

2. Disadvantages of Secondary data.

3. What are the different parts of a Table?

4. What is Bar diagram?

5. Draw Ogive

   marks: 0-10, 10-20, 20-30, 30-40, 40-50, 50-60, 60-70, 70-80

   freq : 5, 8, 10, 12, 28, 20, 10, 7

6. What are the disadvantages of Lorenz Curve?

7. Define Median.

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

9. Find the Range of 25,32,85,32,42,10,20,18,28?

10. Define Decile.

11. What are the characteristics of Skewness?

12. Explain different types of Kurtosis?

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Explain the limitations of Statistics?

14. Represent the following by Histogram

   Ages: 10-15, 15-20, 20-25, 25-30, 30-35, 35-40

   No of students: 4, 12, 20, 18, 14, 25

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 Median

   marks: 0-20, 20-40, 40-60, 60-80, 80-100

   freq : 5, 10, 18, 12, 5

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. Find Quartile Deviation

   28, 18, 20, 24, 30, 15, 47, 27

19. Find Standard Deviation

   8, 10, 16, 9, 7

20. Calculate bowleys coefficient of skewness

   x: 0, 1, 2, 3, 4, 5, 6, 7

   f: 7, 10, 16, 25, 18, 11, 8, 4

21. Find Skewness

   X: 1, 2, 3, 4, 5, 6, 7, 8, 9

   F: 1, 6, 13, 25, 17, 22, 9, 5, 2

$(6\times5=30)$

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Importance and Utility of Statistics.

23. Calculate Mean, Median and Mode.

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

   F: 3, 13, 28, 48, 60, 60, 70

24. Find Mean Deviation

   size: 0-10, 10-20, 20-30, 30-40, 40-50, 50-60, 60-70, 70-80

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

25. Find Kurtosis

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

   F: 18, 20, 30, 22, 10

$(2\times15=30)$