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**SAINTGITS COLLEGE OF APPLIED SCIENCES**

**Internal Assessment Examination, September 2019**

**B.Com Third Semester (Computer Applications & Taxation)**

**QUANTITATIVE TECHNIQUES**

Total : 80 marks Name………………………

Time :3Hours Roll No ……………………

**Section A**

*Answer any 10 questions. Each question carries 2 marks.*

1. Define Statistics.

2. What is harmonic mean?

3. Find the median of the set of numbers: 1,2,3,4,5,6,7,8,9 and 10.

4. Give 2 examples of positional average?

5. Define coefficient of variation.

6. What are the uses of weighted average method?

7. What are the reasons for distrust of statistics?

8. Find Q3from the following series: 10, 12, 27, 18, 8, and 20

9. What is skewness?

10. What do you mean by interpolation?

11. What is sampling?

12. What is cross tabulation? **(10 X 2 = 20 marks)**

**Section B**

*Answer any 6 questions. Each question carries 5 marks.*

13. Find the mean, median, mode, and range for the following list of values:

13, 18, 13, 14, 13, 16, 14, 21, 13

14.  Find the Geometric mean for the following

Weight of sorghum (x) No. of ear head (f)

50 4

  65 6

75 16

  80 8

95 7

  100   4

15. Explain with example how median can be located graphically.

16. Arithmetic mean of 100 items is 50. At the time of calculation one item was misread as 78 instead of 87. Calculate the correct mean.

17. Distinguish between skewness and dispersion.

18. What are the merits and demerits of stratified random sampling?

19. What is classification? What are the objectives of classification?

20. Find the missing frequency from the following

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

No of students:      10           12   16 ?           14   10   8

                    The average mark is 16.82.

21. What are the characteristics of statistics? **(6 X 5 = 30marks)**

**Section C**

*Answer any 2questions. It carries 15marks.*

22. Calculate arithmetic mean from the following:

Value   Less than 10     Less than 20 Less than 30     Less than 40

Frequency       4         16     40           76

Less than 50       Less than 60   Less than 70 Less than 80

96                   112                       120 125

23. Explain the various methods of sampling.

24. The scores of two batsmen Lara and Sachin in 10 innings during a certain season are as follows:

    Sachin:   30, 90 ,70, 60 ,40, 120, 20 ,5, 3, 40

Lara: 60, 80, 100 ,50, 70, 30, 180, 60, 90 ,75

Who is a better run-getter?  Who is more consistent?

25. Particulars regarding the income of two towns are given below:

          Town A Town B

Number of people 600 500

Average income 175 186

variance 100 81

1. In which town is the variation in income greater?

2. Which town mobilises larger amount as income?

3. What is the combined standard deviation of the two towns put together?

**(2 X 15 = 30 marks)**



***Scan QR code for the answer scheme***