



M 2069

Reg. No. :

Name :

V Semester B.A./B.Sc./B.Com./B.B.A./B.B.A.T.T.M./B.B.M./B.C.A./B.S.W./
B.A. Afsal UI Ulama Degree (CCSS – Reg./Supple./Improv.)
Examination, November 2012
OPEN COURSE IN STATISTICS
5D01 STA : Computer Oriented Data Analysis

Time: 2 Hours

Max. Weightage : 20

Instruction : Use of calculators and tables are permitted.

PART – A

Choose the correct answer (Answer **all** questions, weight $\frac{1}{4}$) :

1. Census is not suitable for
 - a) Preparation of Voter's list
 - b) Testing life of Bulbs
 - c) Assessment of Income Tax
 - d) Preparation of Rank list
2. In simple Random sampling, which of the following is true ?
 - a) Every unit of the population has unequal chance to be included in the sample
 - b) All possible samples of a given size has same chance of turning out
 - a) a) only
 - b) b) only
 - c) both a) and b)
 - d) None of these
3. Which of the following average is suitable for open-ended data ?
 - a) AM
 - b) Median
 - c) GM
 - d) HM
4. Above third Quartile Q_3 , there will be _____ % of the total observation.
 - a) 100%
 - b) 75%
 - c) 50%
 - d) 25%
5. The Second Central Moment μ_2 measures
 - a) AM
 - b) Variance
 - c) Skewness
 - d) Kurtosis

P.T.O.



PART – C

Answer should not exceed a page. (Answer **any 4** questions, weight **2**)

- 19. What are the different sources of collecting Primary and secondary data ? Explain.
- 20. Explain the construction of Histogram for a frequency distribution.
- 21. Explain how Lorenz curve is useful in studying disparities of distributions ?
- 22. Find AM and Standard Deviation of the following data :
10.28, 9.6, 7.53, 12.14, 11.93, 8.76
- 23. Explain fitting of a straight line to a Bivariate data.
- 24. Calculate Spearman's Rank Correlation Coefficient for the following data :

Marks in Maths :	76	83	54	48	69	88	60	72
Marks in Economics :	69	75	60	52	63	79	64	66
- 25. Explain various charts and graph options available in EXCEL.
- 26. Explain, how various measures of a univariate data can be obtained using SPSS.
(4×2=8)

PART – D

Answer **any one** question (weight **4**)

- 27. Consider the following data :

Class :	0 – 10	10 – 20	20 – 30	30 – 40	40 – 50	50 – 60
Frequency :	9	12	25	34	50	45

Class :	60 – 70	70 – 80	80 – 90	90 – 100
Frequency :	32	22	19	5

Find :

- 1) Median and Mode
- 2) Bowley's coefficient of skewness and comment on the nature of skewness.



28. Consider the following Bivariate data :

X :	10	20	30	40	50	60	70	80
Y :	26	43	38	47	52	59	56	60

Find :

- 1) Karl Pearson's correlation coefficient
- 2) The two lines of Regression.

Also estimate Y when $X = 55$.

29. Explain how Correlation and Regression Analysis can be conducted using SPSS.

(1×4=4)