



M 9942

Reg. No. : .....

Name : .....

V Semester B.A./B.Sc./B.Com./B.B.A./B.B.A.T.T.M./B.B.A.R.T.M./B.B.M./  
B.C.A./B.S.W./B.A. Afsal-UI-Ulama Degree (CCSS - Reg./Supple./Imp.)  
Examination, November 2015  
Open Course  
5D01 STA : COMPUTER ORIENTED DATA ANALYSIS

Time : 2 Hours

Max. Weightage : 20

PART - A

Answer **all** questions. **Each** bunch of **four** questions carries **one** weightage.

1. Mode is most suitable for
  - a) Nominal data
  - b) Ordinal data
  - c) Scale data
  - d) None of these
2. The sum of the absolute deviations is minimum when the deviations are taken from
  - a) AM
  - b) Median
  - c) GM
  - d) HM
3. For a symmetric data
  - a) mean < median < mode
  - b) mean > median > mode
  - c) mean = median = mode
  - d) none of these
4. GM of 1, 3, 9 is
  - a) 1
  - b) 3
  - c) 9
  - d) 27 (W = 1)
5. The measure of variation that is least affected by extreme observation
  - a) Range
  - b) M D
  - c) S D
  - d) Q D
6. If  $\beta_2 > 3$  the distribution is
  - a) Leptokurtic
  - b) Mesokurtic
  - c) Platikurtic
  - d) None of these

P.T.O.



7. The range of correlation coefficient is
- a) 0 to 1  
b) - 1 to 0  
c) - 1 to 1  
d) 0 to  $\infty$
8. Which of the following function in EXCEL is used for find coefficient of correlation ?
- a) CORRELATE  
b) CORRELL  
c) COHEL  
d) CORREL
- (W = 1)

## PART - B

Answer **any six** questions. **Each** question carries a weightage of **one**.

9. Define sample.
10. Explain simple random sampling.
11. Write any two properties of arithmetic mean.
12. Define percentiles.
13. Define Harmonic Mean.
14. Define Standard Deviation.
15. Define raw and central moments.
16. Define  $\beta_1$  and  $\beta_2$ .
17. Define Skewness.
18. Define Correlation.
- (6×1=6)

## PART - C

Answer **any four** questions. **Each** question carries a weightage of **two**.

19. Explain the various methods of classifying data.
20. Write short note on Pie diagram.
21. Describe principal steps in a sample survey.
22. Explain Lorenz curve.





- 23. Explain various measures of dispersion.
- 24. Find the mean and standard deviation of the following data :  
60, 45, 44, 40, 46, 49, 50, 56, 58, 36 diagram.
- 25. Describe the properties of the regression coefficients.
- 26. Explain various charts and graph options available in EXCEL. (4×2=8)

PART – D

Answer **any one** question. **Each** question carries a weightage of **four**.

- 27. Explain various graphs used for presenting frequency distribution. Draw the histogram and frequency polygon for the following data :

Mark	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100
No. of Students	5	14	22	34	22	18	12	6	2

- 28. Calculate the value of the Pearsons coefficient of correlation for the following data :

X	35	43	47	44	48	42	50	42	48	52
Y	38	36	48	45	53	38	48	35	44	47

- 29. Explain the least square method for fitting the line  $y = \alpha x + \beta$  to a given bivariate data. (1×4=4)
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