

**First Year Examination of the Three Year
Degree Course, 2001
(Common for the Faculties of Arts & Science)**

STATISTICS

Paper I

(Statistical Methods)

Time - Three Hours

Maximum Marks - 50

Attempt **Five** question in all,
selecting **ONE** question from each unit.

All questions carry equal marks.

SECTION A

1. Define "Statistics" and discuss its scope and limitations.
2. Distinguish between classification and tabulation. Discuss the purpose, methods and importance of classification.
3. Write a note on the use of graphic method in Statistics Indicate briefly the special merits attaching to the use of various kinds of diagrams for the presentation of statistical data.
4. What is meant by "Central tendency" ? Describe the various methods of measuring it and point out the usefulness of each methods.

SECTION B

5. Discuss the relative merits of range, standard deviation and mean deviation as a measure of dispersion.
6. What is skewness? What are the different tests of skewness?
7. Define raw and central moments of a distribution. What is the effect of change of origin and scale on the moments?

SECTION C

8. What do you understand by association of attributes? How will you examine the consistency of data classified according to different attributes?
9. In a radio listeners preference survey, 120 persons were interviewed and their opinions were as follows :-

Type of Music	Language A	Language B
I	13	45
II	39	23

Find coefficient of association and coefficient of colligation.

10. From the following given class-frequencies find the values of (A), (B), (C), (AB) and (BC) :-

$$\begin{aligned} (ABC) &= 149, & (\alpha\alpha BC) &= 204, & (AB\gamma) &= 738 \\ (\alpha B\gamma) &= 1762, & (A\beta C) &= 225, & (\alpha\beta C) &= 171, \\ (A\beta\gamma) &= 1196, & (\alpha\beta\gamma) &= 21842. \end{aligned}$$