

UNIT-V

Sphere, Cone, Cylinder.

References :

1. Gorakh Prasad & H.C.Gupta : A Text book of coordinate Geometry (Pothishala)
2. S.L.Loney : The Elements of coordinate Geometry; Mack-Millan and Company, London
3. R.J.T. Bell : Elementary Treatise on coordinate Geometry of the Dimensions
4. P.K. Jain and Khalil Ahmed : A Textbook of Analytical Geometry of three Dimensions, Wiley Eastern Ltd., 1999.
5. N.Saran and R.S.Gupta : Analytical Geometry of three Dimentions. (Pothhishala)
6. Bansal, Bhargava : Dwivim Nirdeshank Jysrruy
7. Gokhroo, Saini : Dwivirn Nirdeshank Jyamiti
8. Gokhroo Saini, : Trivim Nirdeshank Jyamiti
9. Bansal, Bhargava : Trivim Nirdeshank Jyamiti
10. Golas, Tandon, Bhargava : Analytical solid Geometry.

B.A/B.Sc. FIRST YEAR EXAMINATIONS 2007-2008

STATISTICS

(Common for the Faculty of Arts & Science)

Papers	Periods* per week	Examination Hours	Maximum Marks	
			B.A.	B.Sc.
Theory Papers				
Paper I	2	3	45	50
Paper II	2	3	45	50
Paper III	2	3	45	50
Practicals**	4	4	65	75
Total Marks			200	225

* 1 Period = 1 hours

** per batch

N.B.

1. Common papers will be set for both the Faculties of Arts & Science.
2. Students are allowed to use simple electronic desk calculators (as per University guidelines).
3. Statistical Tables may be used (as per University guidelines)

PAPER - I DESCRIPTIVE STATISTICS

The question paper will be divided into three parts A, B and C as follows:

Part A : In this section ten questions will be set. Two questions from each unit. Each question is of short answer type not exceeding 20 words. Each will carry 1/2 mark. The candidate will be required to attempt all the questions (aggregating 5 marks).

Part B : In this section ten questions will be set. Two questions from each unit. The answer of each will not exceed 250 words or two and a half pages. Each question will be of 5 marks. The candidate will be required to attempt five questions in all taking one question from each unit (aggregating 25 marks).

Part C : In this section four questions will be set. One question from all the five units and whose answers shall not exceed 500 words or five pages each. Each question will have sub parts in it and will carry 10 marks. The candidate will be required to attempt any two questions (aggregating 20 marks).

UNIT - I

Definition and History of Statistics, Concept of statistical population. Attributes and Variables, different methods of collection, classification and tabulation of statistical data.

Representation of Data: Discrete and continuous variates, Construction of frequency tables for grouped and ungrouped data in uni-variate and bivariate cases, Histogram, Frequency polygon, curves and ogives, One, two and three dimensional diagrams.

UNIT - II

Measures of Location: Arithmetic mean, weighted arithmetic mean, geometric mean and harmonic mean, Median and Mode. Requisites of an ideal measure of central tendency with merits and demerits. Partition Values: Quartiles, Deciles and Percentiles.

UNIT - III

Measures of Dispersion: Range, Semi-interquartile range, Mean deviation, Root mean square deviation, Standard deviation and coefficient of variation. Lorenz curve, Requisites of an ideal measure of dispersion.

UNIT - IV

Moments: Raw, central, factorial and absolute moments, Relationship between central, raw and factorial moments.

Charlier's checks and Sheppard's corrections (without proof, effect of change of origin and scale on moments.

Different measures of Skewness and Kurtosis.