

V.P. & R.P.T.P. Science College
B.Sc. Semester - III Examination
Internal Examination
FOUNDATION OF STATISTICS - I
(US03FSTA01)



Tuesday, 7th October, 2014

Time: 2.00 to 3.00 p.m

M. Marks: 25

Note: (i) Figures to the right indicate marks.

(ii) Graph paper will be provided on request.

(iii) Simple/Scientific calculator is allowed.

(iv) Q.3 to Q.5 each has 6 marks

- Q.1 Multiple Choice Questions (3 × 1)
- (1) Primary data are the _____ hand information collected, compiled and published by the investigator itself.
(a) first (b) second (c) third (d) none of these
- (2) In a village of 300 population, 60% constitutes Hindu, 20% Muslims, 10% Sikhs and 10% Christians. We want to take a sample of 10% of the population to study the eating habits of this population. The best method would be:
(a) Simple Random Sampling (b) Systematic Sampling
(c) Stratified Random Sampling (d) All of these
- (3) Which of the following is not a part of tabulation?
(a) Title (b) Caption (c) Stub (d) Sample size
- Q.2 Short Type Questions (Attempt Any Two) (2×2)
- (a) State the importance of diagrams.
(b) What are the limitations of Stratified random sampling?
(c) Give two examples each of nominal and ordinal data.
- Q.3(a) List out the various methods of drawing a sample. Write in brief about any one of them.
(b) Describe in brief about application of Statistics in any two fields.
- OR
- Q.3(a) What are the limitations of Statistics?
(b) List out the various methods of drawing a random sample. Write in brief about any one of them.
- Q.4(a) What is sample and sample survey? State the advantages of sample survey.
(b) _____ is a suitable method of collecting primary data in cases where the informants are literate and spread over a vast area. Fill in the blank and describe the method.
- OR
- Q.4(a) What do you mean by questionnaire? State essential points to be remembered in drafting a questionnaire.
(b) 1660 candidates appeared for a competitive examination, 442 were successful. 256 attended coaching class and of these 150 came out successful. Present the above data in an appropriate form of tabulation. State its objective(s).
- Q.5(a) List out the various types of diagrams you have studied. Describe any one of them by giving an example.
(b) In a sample study about the coffee habit in two towns, the following information was received:
Town A: Females were 40%; Total coffee drinkers were 45% and Males non-coffee drinkers were 20%.
Town B: Males were 55%; Males non-coffee drinkers were 30% and Females coffee drinkers were 15%.
Present the above data in a tabular form
- OR
- Q.5(a) What do you mean by classification? State the purpose of classification.
(b) The following data gives the data on yearly imports and exports of a country. Draw a suitable diagram.

Year	2010	2011	2012	2013
Import (In crore)	30	44	55	76
Export(in crore)	22	34	32	48