

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



M. Marks: 25

Tuesday, 7th October, 2014

Time: 2.00 to 3.00 p.m

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