

V.P. & R.P.T.P. Science College, Vallabh Vidyanagar  
 B.Sc. Semester - III Examination  
 Internal Examination - 2016  
 FOUNDATION OF STATISTICS – I  
 (US03FSTA01)



M. Marks: 25

Thursday, 29<sup>th</sup> September, 2016  
 Time: 3.00 to 4.00 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 sub question has 3 marks

Q.1 Multiple Choice Questions

(3 × 1)

- (1) Which method is considered to be best for collecting primary data when survey work is limited and required high standard of accuracy?  
 (a) Mailed questionnaire method (b) Direct personal inquiry method  
 (c) Indirect oral investigation method (d) None of these
- (2) In \_\_\_\_\_ first unit is selected at random and remaining units are selected according to some system/pattern.  
 (a) Simple Random Sampling (b) Stratified Random Sampling  
 (c) Systematic Sampling (d) All of the above
- (3) Classification of data according to different location or areas is called  
 (a) Quantitative classification (b) Qualitative classification  
 (c) Chronological classification (d) Geographical classification

(2 × 2)

Q.2 Short Type Questions (Attempt Any Two)

- (a) How will you select a systematic sample of size 3 from a population of size 15?  
 (b) What is secondary data? Give any two sources of secondary data.  
 (c) Define variable and categorical variable. Give two examples of each.
- Q.3(a) List out the various methods of sampling? If population is homogeneous which method of sampling do you recommend? Write in brief about it.  
 (b) Describe in brief about application of Statistics in any two fields.

OR

- Q.3(a) Give two definitions of Statistics. Write down its limitations, if any.  
 (b) Define the following terms:  
 (i) Categorical variable (ii) Questionnaire (iii) frequency distribution.
- Q.4(a) What is Primary data? Name the different methods of collecting it. According to you which method is considered to be best? Why?  
 (b) What do you mean by questionnaire? State the essential points to be remembered in drafting a questionnaire.

OR

- Q.4(a) Define nominal and ordinal data. Give two examples of each.  
 (b) Differentiate between Primary and Secondary data.
- Q.5(a) What is tabulation? List out the various parts of tabulation. Write in brief about any two of them.  
 (b) Present the following data through a most suitable diagram. State its objective(s)

LCD MARKET SHARE (%)

Market Share	Brand		
	Samsung	Sony	LG
World	18.6	13.2	8.4
India	40.8	20.5	21.2

OR

- Q.5(a) Write a note on Pie chart. Explain it by giving an example.  
 (b) Draw a blank table to show the no. of candidate sexwise, appearing in the first year, second year and third year examination of college in the faculty of science and BCA for a certain year.