
Total number of printed pages-4

34 (2) RMBI 2.5

2018

**RESEARCH METHODOLOGY
AND BIOSTATISTICS**

Full Marks : 80

Time : Three hours

***The figures in the margin indicate
full marks for the questions.***

1. Short Answer Type Questions : 2×10=20
- (a) Define primary data and secondary data with examples.
 - (b) Define the terms :
Random experiment, Exhaustive cases.
 - (c) Write *two* criteria of a good sample.
 - (d) What do you mean by stratified random sampling ?
 - (e) Write *two* advantages of non-parametric method.

Contd.

- (f) Write *two* criteria of a good research.
- (g) Assumption of ANOVA.
- (h) Write about multi-stage sampling.
- (i) Define : Population, Sample.
- (j) Give the classical definition of probability.

2. Short Essay Type Questions : **(any eight)**
8×5=40

- (i) What are the methods of determining test reliability ?
- (ii) Write the advantages and disadvantages of primary data over secondary data.
- (iii) Write the method of collection of secondary data.
- (iv) What is Research ? What are the objectives of research ?
- (v) Write the merits and demerits of diagrammatic representation.
- (vi) How would you make a comparison of mean, median and mode ?

- (vii) What is the importance of the study of statistics ?
- (viii) Explain the test of independence of attributes.
- (ix) Write the applications of biostatistics.
- (x) What is ANOVA ? What are the basic principles underlying ANOVA ?

3. Essay Type Questions : **(any two)**
10×2=20

- (i) What do you mean by 'Sample Design' ? What points should be taken into consideration by a researcher in developing a sample design for the research project ?

OR

Make a comparative study of the Mean, Median and Mode.

- (ii) What is Hypothesis ? What are the characteristics of a hypothesis ? How would you measure the power of a hypothesis test ?

OR

What are the objectives of a research? Write the importance of a good research.

- (iii) What is sampling? What point should be taken into consideration by a researcher in developing a sample design for the research project?

OR

What is binomial distribution? Write the characteristics of the distribution.
