

Roll No.....

Total No. of Printed Pages: 1

Total No. of Questions: [09]

B Sc. Anesthesia Technology (Semester –6TH)
RESEARCH METHODOLOGY & BIOSTATISTICS
Subject Code: BANTS1604
Paper ID: [21132331]

Time: 03 Hours

Maximum Marks: 60

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A

(2 marks each)

Q1. Attempt the following:

- a) Name some basic research methods.
- b) What are the ethics of research design?
- c) Define observational data.
- d) Define Key concepts of biostatistics.
- e) Define sampling frame.
- f) Define qualitative variable.
- g) What is the simple definition of biostatistics?
- h) How do you describe a dataset?
- i) What is used to summarize data statistics in research?
- j) What is statistical analysis?

Section – B

(5 marks each)

- Q2. Difference between probability and non-probability sampling with examples.
- Q3. What are the key concepts and applications of biostatistics?
- Q4. Classify and explain the different types of data used in statistics?
- Q5. What is the need of biostatistics? How do you find a relevant data?
- Q6. Describe the types of variables in research and statistics in brief.

Section – C

(10 marks each)

- Q7. Describe the research tools and data collection methods in research methodology.
- Q8. Answer the following in brief
 - a) Relationship between a data type and a variable.
 - b) Relationship between population and sample.
 - c) Define nominal and cluster data.
- Q9. How research proposal and what are the steps involved in developing a research proposal?