B.Sc. MEDICAL SOCIOLOGY
SECOND YEAR
PAPER VII – BIOSTATISTICS

Q.P. Code : 802217

Time: Three hours   **Maximum : 100 Marks**

Answer All questions

I   Elaborate on: **(3x10 =30)**

1. Explain the types of observation in Medicine
2. Discuss the steps involved in Testing of Hypothesis
3. Explain the types of observations in Medicine.

II Write notes on: **(8 x 5 = 40)**

1. Estimation
2. Experimental Setting
3. Scales of measurement
4. Presentation of Data
5. Biostatistics and statistics
6. Recording of data
7. Stages of Statistical investigation
8. Functions of Statistics

III   Short Answers on: **(10 x 3 = 30)**

1. Types of Frequency Distribution
2. Raw data and Array
3. Organization of data
4. Questionnaire
5. Collection of data
6.   Null Hypothesis
7. Point estimation
8. Level of significance
9. Sampling error
10. Bias in Research

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Answer All questions

I. Elaborate on: **(3 x 10 = 30)**

1. Explain the characteristics of Frequency Distribution.

2. When there are more than two group with continuous outcome measure, explain the procedure of Test of Hypothesis?

3. Explain the various ways of applying statistics in Clinical Medicine

II. Write notes on: **(8 x 5 = 40)**

1. Types of Data.
2. Statistics in Preventive medicine.
3. Power of the Teat.
4. Level of Significance.
5. Frequency Distribution.
6. Limitations of Statistics.
7. Pie Diagram.
8. Normality Condition.

III. Short Answers on: **(10 x 3 = 30)**

1. Quantitative Data.
2. Collection of Data.
3. Tally Mark.
4. Null Hypothesis.
5. Research Hypothesis.
6. Homogenous Group.
7. Normality Test.
8. Bar Chart.
9. Pictogram.
10. Recording of Data.

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Time: Three Hours   **Maximum : 100 Marks**
Answer All questions

I. Elaborate on: **(3 x 10 = 30)**

1. Explain in detail the applications of Statistics in Medicine.
2. Describe the steps involved in Testing of Hypothesis.
3. Elaborate on the diagrammatic representation of Data.

II. Write notes on: **(8 x 5 = 40)**

1. Types of Observations.
2. Type 1 and Type 2 Errors.
3. Estimation.
4. Demerits of Statistics.
5. Formulation of Frequency Distribution.
6. Experimental Setting.
7. Functions of Statistics.
8. Types of Data recorded in routine Clinical Practice.

III. Short Answers on: **(10 x 3 = 30)**

1. Box Whisker Plot.
2. Bio Statistics.
3. Hypothesis.
4. Scales of Measurements.
5. Structure of a Table.
6. Point Estimates.
7. Confidence Intervals.
8. P Value.
9. Areas of Application of Statistics.
10. Class Intervals and Class Limits.

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Time: Three Hours **Maximum : 100 Marks**

Answer All questions

I. Elaborate on: (3 x 10 = 30)

1. Describe the types of observations with examples.
2. What are the procedures followed in testing of hypothesis?
3. Describe the ways of representing data as charts and diagrams.

II. Write notes on: (8 x 5 = 40)

1. Write on Point Estimation and Confidence Interval.
2. State with examples different Scales of measurements.
3. Write on uses of statistics in clinical medicine.
4. Describe role of statistics in preventive medicine.
5. What are Null Hypothesis and Research Hypothesis?
6. How will you form a frequency distribution?
7. What are the different types of experimental setting?
8. Explain the important elements of a Table.

III. Short Answers on: (10 x 3 = 30)

1. Type 1 error.
2. Type 2 error.
3. Define Biostatistics.
4. Level of significance.
5. Define probability.
6. What is frequency curve?
7. Unequal class intervals.
8. Histogram.
9. Line Diagram.
10. Scatter Diagram.

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Time: Three Hours   **Maximum: 100 Marks**

Answer all questions

I. Elaborate on: **(3 x 10 = 30)**

1. Scope of statistical methods in medicine.
2. Explain the role of statistics in preventive medicine.
3. Discuss on sampling techniques and its importance in research.

II. Write notes on: **(8 x 5 = 40)**

1. Criteria for selecting a problem.
2. Presentation of data.
3. Collection and classification of data.
4. Measures of dispersion.
5. Standard error and confidence interval.
6. Power of the test and type I error.
7. Check list for data error correction.
8. Cross sectional study.

III. Short answers on: **(10 x 3 = 30)**

1. Cohort study.
2. Social survey.
3. Scales of measurement.
4. Hypothesis.
5. Range and its coefficient.
6. Reliability.
7. Types of choices in a questionnaire.
8. Cronbach's alpha.
9. Precision.
10. Application of statistics.

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