M.Sc. (MEDICAL SOCIOLOGY) DEGREE EXAMINATION

(NEW REGULATION)

FIRST YEAR

PAPER V – RESEARCH METHODOLOGY & EPIDEMIOLOGICAL ANALYSIS

Q.P. Code: 283085

Time : Three Hours   **Maximum : 100 marks**

Answer ALL questions

I. Elaborate on: **(2 x 20 = 40)**

1. Describe different types of Epidemiological Study design. Write in detail about the cohort study with example and write its advantage and disadvantage.

2. a) What is sampling? Write about different sampling technique used in epidemiological study design.

   b) Test of Significance.

II. Write notes on: **(10 x 6 = 60)**

1. Representation of data.

2. Regression.

3. Case control Study.

4. Types of bias.

5. Uses and Application of health information data.

6. Estimation of risks.

7. Critical appraisal of research paper.

8. Types of hypothesis.

9. Types of questionnaire.

10. Measures of effect.

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Answer ALL questions

I. Elaborate on: **(2 x 20 = 40)**

1. What is bias? Explain different types of bias with example and methods available to control bias.

2. Describe probability distribution and discuss standard normal curve and its application.

II. Write notes on: **(10 x 6 = 60)**

1. What is the concept of multiple and partial correlation co-efficient.

2. Confidence interval Vs. p value.

3. Cluster sampling strength and weakness.

4. Advantage and disadvantage of case control and cohort study.

5. Application of health information data.

6. Probability sampling.

7. Types of hypothesis.

8. Likelihood ratio.

9. Scaling Technique.

10. Qualitative Vs. Quantitative research.

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Answer ALL questions

I. Elaborate on: **(2 x 20 = 40)**

1. Steps involved in test of significance.

2. Retrospective study design.

II. Write notes on: **(10 x 6 = 60)**

1. Bias in Research.

2. Frequency Distribution and scales of measurement.

3. Correlation.

4. Probability Sampling.

5. Chi square test.

6. Cross sectional study.

7. Principles of a Good Report.

8. Data and output window in SPSS.

9. Critical appraisal and review of literature.

10. Measures of Dispersion.

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

I   Elaborate on: **(2x20 =40)**

1. Describe the methods of sampling with illustrations.

2. Explain the sources of data available for Research.

II. Write Short notes on: **(10 x 6 = 60)**

1. Objectives and types of Research.
2. Critical Appraisal.
3. Rules for Framing a Good Questionnaire.
4. Frequency Distribution.
5. Probability Theory.
6. Statistical Inference.
7. Features of Good Research Design.
8. Cases Control Study.
9. Measures of Disease Frequency.
10. Components of Health Information data in Epidemiology.

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

I. Elaborate on: **(2 x 20 = 40)**

1. a) What are the differences between observational studies and experimental studies?
   b) Explain analysis of a cohort study with a suitable example.

2. a) Explain the measures of central tendency and dispersion.
   b) Write a brief note on types of Probability Sampling.

II. Write notes on: **(10 x 6 = 60)**

1. Validity and Reliability.

2. Coefficient of variation.

3. Confidence Interval.

4. Normal distribution.

5. Principal of a Good Report.

6. Regression.

7. Measure of Disease Frequency.

8. Feature of Good Research Design.

9. Type I and Type II error.

10. Estimation of risks.

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

I. Elaborate on: **(2 x 20 = 40)**

1. Describe different types of Epidemiological Study design. Write in detail about the case control study with example and write its advantage and disadvantage.

2. Describe probability distribution and discuss standard normal curve and its application.

II. Write notes on: **(10 x 6 = 60)**

1. Presentation of Data.
2. Tools for analysis.
3. Measurement Errors.
4. Probability Sampling.
5. Measures of disease frequency.
6. Scaling techniques.
7. Application of Health Information data.
8. Testing of Hypothesis.
9. Report writing.
10. SPSS.

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