September 2008

M.Sc. (MEDICAL SOCIOLOGY) DEGREE EXAMINATION.

FIRST YEAR

(For candidates admitted from 2007-2008 session onwards)

Paper VIII – RESEARCH METHODOLOGY AND

EPIDEMIOLOGICAL ANALYSIS

Q.P. Code : 283058

Time : Three hours   **Maximum : 100 marks**

Answer All questions.

I. Essays :   **(2 x 20 = 40)**

1. What is Research Design? What are the different types of epidemiological re
   search design? Briefly describe the analytical study designs and compare and
   contrast the two major study designs.   **(2 + 6 + 6 + 6)**

2. What is a Health Information System? Briefly comment on the different sources
   of Health Information. Write briefly on the Sample Registration System.

                                                                                             (2 + 8 + 10)

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

1. Strategies to control Bias in research.

2. Testing of Hypothesis.

3. Hand search

4. Participatory rapid Appraisal.

5. Graphical representation.

6. Likert V/s Gutman Scales.

7. Pilot study.

8. MeSH terms.

9. Components of a report with brief explanation of components of a table.

10. NRR.

****

[KU 241]   Sub. Code: 3058

M.Sc (MEDICAL SOCIOLOGY) DEGREE EXAMINATION
FIRST YEAR
(For candidates admitted from 2007-2008 onwards)

Paper VIII – RESEARCH METHODOLOGY & EPIDEMIOLOGICAL ANALYSIS

Q.P. Code : 283058

Time : Three hours   **Maximum : 100 marks**

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essays: **(2 x 20 = 40)**

1. Write in detail about the sources of demographic data.

2. Explain in detail the various research designs.

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

1. Explain Blinding.

2. How to write a good research report?

3. Major steps in research process.

4. The requisite for selection of a research question.

5. Explain reliability and validity.

6. Explain the Bias in Research.

7. Explain how to form a frequency distribution table.

8. Various methods of sampling technique.

9. What are the components of health information system.

10. Write short notes on Type I and Type II error.

******

[KV 241]   **Sub. Code: 3058**

M.Sc (MEDICAL SOCIOLOGY) DEGREE EXAMINATION

FIRST YEAR

(For candidates admitted from 2007-2008 onwards)

Paper VIII – RESEARCH METHODOLOGY & EPIDEMIOLOGICAL ANALYSIS

Q.P. Code : 283058

Time : Three hours   **Maximum : 100 marks**

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essays: **(2 x 20 = 40)**

1. What is interventional epidemiology? What are the three types of interventional epidemiology? Write in detail about the double blind randomized controlled trial.

(2+6+12)

2. What is a Sample? What are the different types of sampling design? Explain in detail stratified cluster sampling technique.   (2+6+12)

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

1. Normal curve.

2. Constructing a self administered questionnaires.

3. Measures of mortality.

4. TAM study.

5. Types of qualitative studies - case analysis.

6. Evidence based methods.

7. Colon classification.

8. Advantages and disadvantages of case control study.

9. Socio-gram. Explain with example.

10. Systematic review and meta-analysis.

******

[KW 241]   Sub. Code: 3058

M.Sc (MEDICAL SOCIOLOGY) DEGREE EXAMINATION
FIRST YEAR
(For candidates admitted from 2007-2008 onwards)

Paper VIII – RESEARCH METHODOLOGY & EPIDEMIOLOGICAL ANALYSIS

Q.P. Code : 283058

Time : Three hours   **Maximum : 100 marks**

Draw suitable diagram wherever necessary.

Answer ALL questions.

I. Essays: **(2 x 20 = 40)**

1. List the social science research techniques. Describe the steps in conducting focus group discussions.

2. Write the steps in conducting a behavioural health modification intervention. What are the measures to be taken to improve the validity?

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

1. Behavioural surveillance in HIV.

2. Strengths and weakness of 'Participant observation'.

3. Sample registration system.

4. Define 'Confounder'. What are the methods to control confounding in case control studies.

5. Describe in brief, the lay out of a research report.

6. Cross sectional study.

7. Write the relative advantages of structured and semi-structured questionnaire.

8. Describe briefly the "Likert Scale'.

9. Describe with example the importance of calculating confidence interval.

10. Advantages and limitations of qualitative study.

*****

[KX 241]   **Sub. Code: 3058**

M.Sc (MEDICAL SOCIOLOGY) DEGREE EXAMINATION
FIRST YEAR
(For candidates admitted from 2007-2008 onwards)
Paper VIII – RESEARCH METHODOLOGY & EPIDEMIOLOGICAL ANALYSIS
Q.P. Code : 283058

Time : Three hours   **Maximum : 100 marks**

Draw suitable diagram wherever necessary.
Answer ALL questions.

I. Essays: **(2 x 20 = 40)**

    1. Explain in detail the various Research Designs.

    2. Explain the applications of x^2 – test with examples.

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

    1. Explain the problems encountered by researchers in India.

    2. Describe various ways of presentation of a data.

    3. State and prove addition theorem of probability.

    4. Write down the steps involved in Testing of hypothesis.

    5. Evidence based methods.

    6. Uses and application of health information data in Epidemiology.

    7. Explain briefly about the Types and Sources of Control.

    8. Write short notes as the time of Epidemiology.

    9. Methods of collection of Data.

  10. Explain Type-I and Type-II error.

*****

[KY 241]   **Sub. Code: 3058**

M.Sc. (MEDICAL SOCIOLOGY) DEGREE EXAMINATION.

FIRST YEAR

(For candidates admitted from 2007-2008 session onwards)

Paper VIII – RESEARCH METHODOLOGY AND

EPIDEMIOLOGICAL ANALYSIS

Q.P. Code : 283058

Time : Three hours   **Maximum : 100 marks**

Answer All questions.

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

1. Write in detail the various methods of collection of Data and presentation of Data.

2. Explain in detail about "Health Information System".

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

1. What are the sources of secondary data?

2. Explain the characteristics of a frequency distribution table.

3. Explain Bayes theorem by an example.

4. Explain Null and Alternate Hypothesis.

5. Write down the steps involved in test of significance.

6. Differentiate between prospective and retrospective studies.

7. How to conduct a clinical trial.

8. Explain Linkert Scaling Techniques.

9. What are the principles to be observed while writing a good report?

10. Write down the problems encountered by researchers in India.

****

M.Sc (MEDICAL SOCIOLOGY) DEGREE EXAMINATION

FIRST YEAR

(For candidates admitted from 2007-2008 session onwards)

PAPER VIII –RESEARCH METHODOLOGY AND EPIDEMIOLOGICAL ANALYSIS
Q.P. Code : 283058

Time : 3 hours   **Maximum : 100 marks**
      (180 Min)

Answer ALL questions in the same order.

I. Elaborate on :	Pages (Max.)	Time (Max.)	Marks (Max.)
1. Explain biases in research.	17	40	20
2. What are the components, uses and application of health information in epidemiology?	17	40	20

II. Write notes on :

	Pages	Time	Marks
1. Differences between qualitative and quantitative research.	4	10	6
2. Measures of central tendency.	4	10	6
3. Features of good research designs.	4	10	6
4. Differences between observational and experimental studies.	4	10	6
5. Steps in testing a hypothesis.	4	10	6
6. Characteristics of a good report.	4	10	6
7. Relative merits and demerits of Rating vs. Ranking scales.	4	10	6
8. Measures of disease frequency in epidemiology.	4	10	6
9. Advantages of case-control over cohort study.	4	10	6
10. Clinical trial with examples.	4	10	6

****