

**M.Phil., CLINICAL SOCIAL WORK EXAMINATION****FIRST YEAR****PAPER III – EPIDEMIOLOGY AND RESEARCH***Q.P. Code : 151003***Time: Three Hours  
(180 Min.)****Maximum: 100 marks****Answer ALL questions in the same order.****I. Elaborate on :****Pages Time Marks  
(Max.) (Max.) (Max.)**

- |  |    |         |    |
|--|----|---------|----|
| 1. You are given a project to identify bottlenecks and facilitate rehabilitation of people living with HIV in a block. How will you co-ordinate the management issues. | 17 | 40 min. | 20 |
| 2. Plan a cohort study for establishing association between “Soft drink” consumption and gastritis.  | 17 | 40 min. | 20 |

**II. Write notes on :**

- |   |   |         |   |
|---|---|---------|---|
| 1. Mortality measures – their advantages limitations.                                     | 4 | 10 min. | 6 |
| 2. Illustrating a frequency distribution with charts & diagrams – enlist.                 | 4 | 10 min. | 6 |
| 3. Bias in epidemiology studies.  | 4 | 10 min. | 6 |
| 4. Limitations in interpreting a meta analysis.   | 4 | 10 min. | 6 |
| 5. Discuss non – recurring costs in a research proposal.                                  | 4 | 10 min. | 6 |
| 6. Plan the logistics for conducting a cohort study on “Triglyceride levels in athletes”. | 4 | 10 min. | 6 |
| 7. Screening for Breast Cancer.   | 4 | 10 min. | 6 |
| 8. Methods of preventing “Dengue” outbreak.   | 4 | 10 min. | 6 |
| 9. ANOVA (Analysis of Variance) – Explain its use.  | 4 | 10 min. | 6 |
| 10. Ethical issues in Organ Donation.   | 4 | 10 min. | 6 |

\*\*\*\*\*

[LC 1012]

APRIL 2013

Sub. Code: 1003

**M.Phil., CLINICAL SOCIAL WORK EXAMINATION**

**FIRST YEAR**

**PAPER III – EPIDEMIOLOGY AND RESEARCH**

*Q.P. Code : 151003*

**Time: Three Hours**

**Maximum: 100 marks**

**Answer ALL Questions**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Prepare a grant application to a funding agency for the following cross – sectional study “Assessing need for dental care in the coverage area of a health post”.
2. Discuss the steps in conducting the following Randomised Control Trial.  
“Effectiveness of using rice tran oil in decreasing Ischaemic Heart Disease”.

**II. Write notes on:**

**(10 x 6 = 40)**

1. What is an epidemic curve? List its uses.
2. Co-efficient of variance – its use.
3. Measures to minimize “Attrition” in studies.
4. Outline steps in evaluating the acceptability of a scientific research paper.
5. Plan the time schedule for conducting a case control study on “Exposure to radiation as a cause of aplastic anaemia”.
6. Explain the statistical analysis you would use for establishing association when the following details of a group of 250 accountants are available Body Mass Index and serum cholesterol levels.
7. How is HIV Surveillance conducted in India.
8. Clinical features and complication of Diabetes mellitus.
9. Medical Ethics norms to be followed While conducting research on humans.
10. Proportional Hazards (COX) model – its application.

\*\*\*\*\*

[LF 1014]

OCTOBER 2014

Sub. Code: 1003

**M.Phil., CLINICAL SOCIAL WORK EXAMINATION**

**FIRST YEAR**

**(From 2011-2012 Batch onwards)**

**PAPER III – EPIDEMIOLOGY AND RESEARCH**

*Q.P. Code : 151003*

**Time: Three Hours**

**Maximum: 100 marks**

**Answer ALL Questions**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Prepare a detailed grant application suitable for submission to a funding agency.  
Topic of research: Smoking in adolescents.
2. Focus group discussion as a method for research – Indication, process, advantages and limitations.

**II. Write notes on:**

**(10 x 6 = 40)**

1. Institutional Ethics committee.
2. Randomisation in research.
3. Nested Case Control Study.
4. Triangulation in social research.
5. Wilcoxon's signed rank test.
6. Regression analysis.
7. Calculate the probability of having 5 female foeticide in a year in a society where the average rate of female foeticide is 2 per year?
8. What study design would you choose to identify risk factors for leptospirosis in a village? Give reasons.
9. Vision 2020.
10. Attributable risk.

\*\*\*\*\*

[LH 1012]

OCTOBER 2015

Sub. Code: 1003

**M.Phil., CLINICAL SOCIAL WORK EXAMINATION**

**FIRST YEAR**

**(From 2011-2012 Batch onwards)**

**PAPER III – EPIDEMIOLOGY AND RESEARCH**

*Q.P. Code : 151003*

**Time: Three Hours**

**Maximum: 100 marks**

**Answer ALL Questions**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Mention the various study designs and describe in detail how you will conduct a study for prevention of Child Abuse.
2. What are the tests of significance? Describe the chi-square test in detail with its merits and demerits.

**II. Write notes on:**

**(10 x 6 = 40)**

1. ROC Curve.
2. Pictorial representation of Data.
3. Health education as tool in AIDS control.
4. Epidemiology of Cancer.
5. Disease notification.
6. Air pollution.
7. Confounding and Effect Modification.
8. Bias.
9. Cluster sampling.
10. Malnutrition.

\*\*\*\*\*

[LJ 1016]

OCTOBER 2016

Sub. Code: 1003

**M. Phil CLINICAL SOCIAL WORK EXAMS  
FIRST YEAR  
PAPER III – EPIDEMIOLOGY AND RESEARCH**

*Q.P. Code : 151003*

**Time : Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. What are the differences between observational studies and experimental studies? Explain analysis of a cohort study with a suitable example.
2. Explain the concept of tests of significance, the underlying assumptions and the interpretation of p-value. What are Type 1 and Type 2 errors? How would you increase the power of the test for a given Type1 error?

**II. Write notes on:**

**(10 x 6 = 60)**

1. Presentation of data.
2. Epidemiology of Road traffic accidents.
3. Probability sampling.
4. Diagnostic tests.
5. Project management.
6. Triangulation.
7. Randomisation.
8. Correlation and regression.
9. Good clinical practice.
10. Reliability and Validity.

\*\*\*\*\*

[LL 1017]

OCTOBER 2017

Sub. Code: 1003

**M. Phil CLINICAL SOCIAL WORK EXAMS  
FIRST YEAR  
PAPER III – EPIDEMIOLOGY AND RESEARCH**

*Q.P. Code : 151003*

**Time : Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Classify observational study designs. Explain design and conduct of a case control study with suitable example.
2. Define Regression, types with examples. Advantages in using multivariate statistics. Conditions for using multiple regressions.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Types of data with two examples each.
2. Type I and Type II error in test of hypothesis with an example.
3. Define Correlation and tabulate the difference between the types of correlation.
4. Probability sampling methods.
5. Project management in clinical trial.
6. Confounding and Bias with examples.
7. Concept of Disease Control, Elimination and Eradication.
8. Factorial design.
9. Incubation period, generation time and basic reproductive rate.
10. Epidemiology of Diabetes mellitus.

\*\*\*\*\*

[LM 0518]

MAY 2018

Sub. Code: 1003

**M. Phil CLINICAL SOCIAL WORK EXAMS  
FIRST YEAR  
PAPER III – EPIDEMIOLOGY AND RESEARCH**

*Q.P. Code : 151003*

**Time : Three hours**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Explain descriptive study designs and classify it. Types of Cross sectional study. Explain design and conduct of Cross-sectional study with suitable example.
2. What are the tests of significance? Assumptions and the interpretation of p-value with adequate example. Describe ANOVA in detail with suitable example and explain one Post hoc test.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Summary measures in statistics.
2. Define Regression with types.
3. Predictive value of Screening tests.
4. Receiver Operating Characteristic (ROC) curve and its implications.
5. Good clinical practice.
6. Probability proportional to size sampling.
7. Epidemiology of Vector borne disease with suitable example.
8. Epidemiology of Injuries and describe Haddon's matrix.
9. Cross over clinical trial with example.
10. Types of statistical distribution.

\*\*\*\*\*

**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[AHS 0321]**

**MARCH 2021**

**Sub. Code: 1003**

**(OCTOBER 2020 EXAM SESSION)**

**M.Phil. CLINICAL SOCIAL WORK**

**FIRST YEAR (From 2011-2012 onwards)**

**PAPER III – EPIDEMIOLOGY AND RESEARCH**

***Q.P. Code : 151003***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2x20= 40)**

1. Explain observational studies with examples for each of the study design.
2. Explain parametric and non-parametric tests; State advantages and disadvantages.

**II. Write notes on**

**(10x6=60)**

1. Concept of randomized controlled trial.
2. Measures of association.
3. Confounding with example.
4. Epidemiologic triad.
5. Types of non-probability sampling with example.
6. Epidemiology of vector-borne diseases with example.
7. Analysis of variance.
8. Epidemiology of obesity.
9. Ethical values and norms in clinical social work practice.
10. Standard error.

\*\*\*\*\*



**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[AHS 0921]**

**SEPTEMBER 2021  
(MAY 2021 EXAM SESSION)**

**Sub. Code: 1003**

**M.Phil. CLINICAL SOCIAL WORK  
FIRST YEAR (From 2011-2012 onwards)  
PAPER III – EPIDEMIOLOGY AND RESEARCH  
*Q.P. Code : 151003***

**Time: Three hours**

**Answer ALL Questions**

**Maximum: 100 Marks**

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

1. Explain analytical studies with examples for each of the study designs.
2. Define sampling. List types of sampling methods. Explain each of the sampling methods with examples.

**II. Write notes on (10x6=60)**

1. Ecological fallacy with example.
2. Advantages and disadvantages of a cross-sectional study.
3. Standard deviation and standard error.
4. Systematic error.
5. Natural history of diseases.
6. Epidemiology of food-borne diseases with example.
7. Define with example: Epidemic, Endemic and Pandemic.
8. Measures of central tendency.
9. Perspectives on evidence-based practice in clinical social work.
10. Epidemiology of hypertension.

\*\*\*\*\*