

Your Roll Number .....

**SCHOOL OF CHEMICAL AND LIFE SCIENCES**  
**B.Sc. (HONOURS)/B.Sc. (HONOURS WITH RESEARCH)**  
**SEMESTER-IV EXAMINATION, Aug-2024**

**PAPER CODE: BCR MIC 401**

**PAPER TITLE: Clinical Epidemiology**

**Time: 2.5 Hrs.**

**Maximum Marks: 60**

*Write the roll number at the top immediately on receipt of this question paper. Attempt all questions. All parts of a question must be attempted in continuation. Start answering a fresh question on a new page. Cite examples whenever necessary*

Q 1. Attempt all the questions

[6\*2=12]

- a. Define epidemiology
- b. Explain proportion
- c. Define secular trends
- d. What do you understand by case fatality ratio
- e. State the objectives of descriptive studies
- f. Define Spot map

Q2. Attempt **ANY THREE** of the following:

[3\*4=12]

- a. Write a note on bias in clinical research
- b. Explain the types of blinding
- c. Discuss Human Genome Project
- d. Enumerate the role of pharmacogenomics in clinical research
- e. Write a note on ecological studies

Q 3. Attempt **ANY TWO** of the following:

[2\*6=12]

- a. Discuss the uses of epidemiology
- b. What are the steps to conduct a randomized control trial
- c. Describe the types of epidemics
- d. Explain mortality rates

Q 4. Attempt **ANY ONE** of the following:

[12]

- a. Discuss the evolution of epidemiology
- b. Explain evidence-based medicine

Q 5. Attempt **ANY ONE** of the following:

[12]

- a. Enumerate the methods for measurement of morbidity
- b. Describe the various types of study designs