

Roll.No.

25PBSCT1003

SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN
(AUTONOMOUS)

(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)
Chromepet, Chennai - 600 044.

M.Sc.Biostatistics - END SEMESTER EXAMINATIONS - NOVEMBER 2025
SEMESTER - I

25PBSCT1003 - EPIDEMIOLOGY

Total Duration : 2 Hrs. 30 Mins.

Total Marks : 60

Section B

Answer any **SIX** questions ($6 \times 5 = 30$ Marks)

1. Cite any two uses of epidemiology.
2. Explain the difference between communicable and non-communicable diseases.
3. Relate the features of a random control trial (RCT) with examples.
4. Show the importance of questionnaire preparation in data collection.
5. State the difference between single and multiple causes.
6. Classify diseases based on their mode of transmission.
7. Describe the importance of sample size in epidemiological research.
8. Examine evidence-based medicine.

Section C

I - Answer any **TWO** questions ($2 \times 10 = 20$ Marks)

9. Describe the concept and calculation of case fatality rate (CFR) and its importance.
10. Prepare a detailed note on the guidelines for establishing causation.
11. Outline the method of conducting an epidemic field investigation.
12. Explain the applications of epidemiology in health services.

II - Compulsory question ($1 \times 10 = 10$ Marks)

13. Differentiate between descriptive and analytical approaches in epidemiological project design.
