

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 - APRIL 2025
SEMESTER - IV

20PBSCT4011 - Clinical Trials and Epidemiology

Total Duration : 2 Hrs. 30 Mins.

Total Marks : 60

Section B

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

1. Explain the need and ethics of clinical trials.
2. Describe about Multicenter trails.
3. Relate the Levels of Prevention epidemics and endemic investigation.
4. Illustrate Field trails and community trails with examples.
5. Explain the four phases of clinical trials.
6. Classify Single-blind and Double-blind trials.
7. Explain Bradford Hill's theory for Causation.
8. Distinguish between Cross-sectional studies and Cohort studies with examples.

Section C

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

9. Describe about Organization and Planning of clinical trials.
10. Relate the different methods of randomization.
11. Examine the statistical method for
 - (a) Dichotomous response variables,
 - (b) Continuous response variables,
 - (c) Repeated measures
12. Evaluate the epidemiology measure given below with examples:
 - (a) Prevalence rates
 - (b) Incidence rates
 - (c) Cumulative incidence rate
 - (d) Casefatality

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

13. Examine in detail how to Plan an Epidemiological Project.
