

Roll.No.

20PBSCT1003

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

20PBSCT1003 -Population Studies

Total Duration : 2 Hrs. 30 Mins.

Total Marks : 60

Section B

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

1. Explain the Chandrasekar-Deming Index and its significance in assessing the completeness of vital registration.
2. Explain the direct and indirect methods of standardization in mortality analysis.
3. Differentiate between Total Fertility Rate (TFR) and General Fertility Rate (GFR) with their significance in demographic studies.
4. Define migration and explain the key concepts associated with it.
5. Describe briefly between the push and pull factors of migration with examples.
6. Distinguish between stable population and stationary population with examples.
7. Differentiate between crude death rate and specific death rate with examples.
8. Discuss the relationship of demography with other disciplines and its interdisciplinary nature.

Section C

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

9. What is a life table? Describe its construction and uses, and explain any one method used for constructing an abridged life table.
10. Explain the determinants of fertility and discuss how socio-economic, cultural, and biological factors influence fertility levels in a population.
11. Discuss the measures of migration and explain national growth rate method and the residual method.
12. Define population projection and discuss the Pearl-Reed method and the component method

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

13. Define population pyramid and explain how it is used for the graphical representation of age distribution. Also discuss its significance in demographic analysis with suitable examples.
