



M 14403

Reg. No. : 19421.....

Name :

IV Semester M.Sc. Degree Examination, April 2008
STATISTICS

4.3 : Demography

Max. Marks : 70

Time : 3 Hours

Instructions : Answer any five questions. Choosing one from each Unit.

UNIT - I

1. a) What are the major sources of Demographic data in India ? Discuss their merits and limitations ? (7+7=14)
- b) Explain the components of population changes ?
2. a) Why do people move ? How much does migration contribute to Population change ? (7+7=14)
- b) Define Demography ? Discuss the relationships between Demography and Statistics.

UNIT - II

3. a) Describe the various measures of fertility with illustrations ? (7+7=14)
- b) What do you mean by standardization of rates ? Describe direct standardization techniques using hypothetical data ?
4. a) Define life table ? Discuss the various methods of life table construction. (7+7=14)
- b) Differentiate mortality and morbidity and discuss the various measures of mortality and morbidity ?

UNIT - III

5. a) Discuss Lotka's stable population theory ? Derive the expression of the age distribution of a stable population ? (10+4=14)
- b) Differentiate stationery and stable population ?

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6. a) Describe the methods of fitting logistic curve and also state its limitations ? (7+7=14)
b) Discuss the mathematical methods of population projection ?

UNIT - IV

7. a) What is stochastic process ? What are the uses of stochastic process in population studies ? (7+7=14)
b) Explain
i) Poisson Process and
ii) Markov Chain
8. a) Describe the development of Coale and Demeny regional model life tables and its applicability to Indian situation ? (7+7=14)
b) Write short notes on
i) Model life tables
ii) Model stable populations.

UNIT - V

9. a) Define Development. Explain the indicators of economic development with suitable examples ? (7+7=14)
b) Write shorts note on
i) Gender Adjusted Human Development Index
ii) Man Power Planning in India.
10. a) Discuss the regional variations in development and population growth in India ? (7+7=14)
b) Explain the concept Sustainable development ?
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