



M 15846

Reg.No. :5486.....

Name :

IV Semester M.Sc. Degree Examination, May 2009
STATISTICS
Paper – 4.3 : Demography

Time: 3 Hours

Max. Marks: 70

Instructions : Answer any five questions, choosing one from each Unit.

UNIT – I

- ✓ 1. What is age pyramid? Explain the measures of age and sex composition. (6+8=14)
2. a) What are the important fertility and mortality data sources in India?
b) Explain the mortality measures. (7+7=14)

UNIT – II

3. a) Discuss the measures of fertility with examples.
b) Define infant mortality rate. What are the components of infant mortality rate? (7+7=14)
4. a) What is life table? What are the different types of life tables?
b) What do you mean by the standardization of rates? (7+7=14)

UNIT – III

5. Show that a population with unchanging fertility and mortality and closed to migration will reach a stable state. What assumptions are made in proving this? Obtain an expression for the age distribution, birth and death rates of a stable population. (5+3+6=14)
6. a) What is population estimation and projection? Discuss the component method of population projection.
b) Explain the exponential growth of population. (8+6=14)

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UNIT - IV

7. a) Define Stochastic process and explain its application in demographic analysis.
b) Describe the birth and death process. (7+7=14)
8. a) What is a Model life table ? What are the various types of model life tables ?
b) Explain Brass logit system of Model life tables. (7+7=14)

UNIT - V

9. a) What do you mean by Development ? Briefly discuss the indicators of social and economic development.
b) Explain : 1) Human Poverty Index
2) Physical Quality of Life Index (PQLI) (8+6=14)
10. a) Discuss the inter-relationship between population and social development in India.
b) Discuss the man power planning and saving pattern in India. (7+7=14)