



M 17301

Reg. No. : A8P5571003.....

Ramla B
11nd MSc (ST)

Name : Jayani-G.....

Fourth Semester M.Sc. Degree Examination, March 2010

STATISTICS

Paper – 4.3 : Demography

Time: 3 Hours

Max. Marks: 70

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

UNIT – I

1. Define the terms :

- a) Fertility
- b) Fecundity
- c) Nuptiality
- d) Mortality.
- e) Migration
- f) Urbanization and
- g) Natality.

(7×2=14)

2. a) What are the determinants of population change ?

b) What is balancing equation ?

(7+7=14)

UNIT – II

3. a) Differentiate the measures of TFR, GRR and NRR.

b) What do you mean by the standard errors of life table functions ?

(6+8=14)

4. What is the purpose of standardization ? Describe the direct and indirect method of standardization.

(4+10=14)

P.T.O.



UNIT – III

5. What do you mean by the momentum of population growth ? What is the ultimate size of the population if NRR of the stable population drops immediately to unity. (6+8=14)
6. a) Describe the method of fitting logistic curve in population growth models.
b) Explain the Quasi-stable population. (7+7=14)

UNIT – IV

7. a) Write notes on :
i) Poisson process
ii) Pure birth process
b) Discuss Roger's migration model. (8+7=14)
8. a) Discuss the development of model life tables and explain its uses in demographic analysis.
b) What do you mean by Model stable population ? Discuss its uses in Demography. (7+7=14)

UNIT – V

9. a) Discuss the relationship between population growth and capital formation.
b) Explain the causes and consequences of unemployment in Kerala. (7+7=14)
10. Write short notes on :
a) Economic growth Vs. Economic development.
b) Human Development Index and Gender Adjusted Human Development Index. (7+7=14)