

Stat-213 Demography-I

100 Marks: 03 Credits

Number of Class: 35-40

Introduction: What is Demography? Nature and Scope of Demography, Vital Events, Demography and Population Studies.

Sources of Demographic Data: Sources of Demographic Data, Methods of Data Collection, Concept of De Facto and De Jure Population, Census, Vital Registration, Sample Survey - Definition, Essential Feature, Planning, Preparation.

Population Composition and Distribution: Some Demographic Measures: Rates, Ratios, and Proportion. Concept of Population Change, Population Growth, Measurement of Population Growth, Population Projection, Rural and Urban Population, Urbanization, Age-Sex Composition and Structure, Statistics on Age, Age Heaping, Evaluation of Age and Sex Data, Myer's Index, Whipple's Index, United Nations Index, Causes of Errors in Age Data and their Detection, Population Pyramid, Cohort and Lexis diagram.

Fertility and Reproduction: Concept of Fertility, Reproduction, Causes of Low and High Fertility, Measurements of Fertility and Reproduction, Fertility, Trends and Differentials, Standardization and Decomposition of Fertility Rate.

Mortality and Morbidity: Concepts of Mortality and Morbidity, Measures of Mortality, Trends of Mortality, Differentials, Mortality, Direct and Indirect Standardization of Morbidity Rates.

Life Table: Concept, History, Uses, Types of Life Table; Functions of Life Tables; Construction of Life Tables, Application of Life Tables; Actuarial Life Table, Its Construction and Application; Force of Mortality.

Marriage and Nuptiality: Concept of Marriage and Nuptiality, Family Formations, Composition and Dissolution; Estimation of Mean and Median age at Marriage, Estimation of Singulate Mean age at Marriage.

Migration: Concepts of Migration, Types and Measures of Migration. Consequences, Determinant's and Trends of Migration.

Text

1. Barclay, J.: *Techniques of Population Analysis*, Wiley, New York.
2. Shryock, H. S., J. S. Siegel and Associates (2004): *The Methods and Materials of Demography*; Latest edition, Academic Press, N.Y.

References

1. *Bangladesh Bureau of Statistics* (2003): 1981, 1991, 1993, 2001 Bangladesh Population Census Report, Bangladesh.
2. Biswas, S. (1988): *Stochastic Process in Demography and Applications*, Wiley Eastern, New Delhi.
3. Cox, D.R.: *Demography*.
4. Misra, B.D.: *An Introduction to the Study of Population*, South Asia, New Delhi.
5. Ramakumar, R. (1986): *Technical Demography*, Wiley Eastern, New Delhi.
6. Spiegelman, M.: *Introduction to Demography*, Harvard University Press, USA.