

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 2018
(Fourth Semester)

Branch - STATISTICS

DEMOGRAPHIC TECHNIQUES

Time: Three Hours

Maximum: 75 Marks

Answer ALL questions
ALL questions carry EQUAL marks (5 x 15 = 75)

- 1 a Explain the nature and scope of Demography.
b Explain the concept of Demographic transition theory.
OR
c Explain Chandrasekar - Deming index,
d Explain the importance of infant mortality.
- 2 a Explain the concept, functions and their relationship of life tables.
b Explain the concept of sampling distribution of life table function.
OR
c Explain any one of the mathematical model in mortality,
d Explain the method of construction of life table.
- 3 a Explain the meaning, characteristics and type of indices of fertility measure.
b Explain GFR and TFR.
OR
c Explain any two measures of fertility,
d Explain Dandekar's modified Binomial model.
- 4 a Explain the following :
(i) Migration and its types
(ii) Estimation of Migration rate
(in) Hamilton's rate
OR
b Explain the concept of population projection,
c Explain the method of Lesile matrix in population projection.
- 5 a Explain the stochastic process using the demographic events with an example.
b Explain purly Birth process.
OR
c Explain the concept of Extension probability in demography,
d Explain the birth and death model with migration.

Z-Z-Z

END