

**PSG COLLEGE OF ARTS & SCIENCE**  
(AUTONOMOUS)  
**BSc DEGREE EXAMINATION DECEMBER 2018**  
(Sixth Semester)

**Branch - STATISTICS**

**DEMOGRAPHIC METHODS**

Time : Three Hours

Maximum : 75 Marks

**SECTION-A (20 Marks)**

Answer **ALL** questions

**ALL** questions carry **EQUAL** marks (10 x 2 = 20)

- 1 Define Vital statistics.
- 2 What is Census?
- 3 State the various measures of fertility.
- 4 What is net production rate?
- 5 Define Crude Death Rate (CDR).
- 6 What are the causes of infant mortality rate?
- 7 State any two uses of life table.
- 8 What are the reasons for migration?
- 9 What is popular projection?
- 10 Write a note on Stationery population.

**SECTION - B (25 Marks)**

Answer **ALL** Questions

**ALL** Questions Carry **EQUAL** Marks (5 x 5 = 25)

- 11 a What are the various sources of demographic data.  
OR
- b Explain the scope of demography.
- 12 a Write a note on (i) General fertility rate (ii) Age specific fertility  
OR
- b Explain gross reproduction rate with its interpretation.
- 13 a Explain various factors affecting mortality.  
OR
- b Derive Compertz law.
- 14 a Explain the construction of life table.  
OR
- b Write a note on (i) Gross migration (ii) Net migration
- 15 a State atleast five importance of population projections.  
OR
- b Explain logistic curve.

**SECTION - C (30 Marks)**

Answer any **THREE** Questions

**ALL** Questions Carry **EQUAL** Marks (3 x 10 = 30)

- 16 What is demography? Show its importance in developed and developing countries.
- 17 What is fertility? Discuss the factors affecting fertility.
- 18 Discuss the causes of decline in mortality rates in developing countries.
- 19

Age in years	$l_x$	$dx$	$px$	$qx$	$L_x$	$T_x$	$e^{\circ}_x$
4	9500	500	?	?	?	4850300	?
5	?	400	?	?	?	9	?