

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2025
(Sixth Semester)

Branch – STATISTICS

MAJOR ELECTIVE COURSE- II : DEMOGRAPHIC METHODS

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

1. Demography studies the _____ of population.
(i) Vital statistics (ii) Growth rate
(iii) Census (iv) Sample
2. Fertility refers to _____.
(i) Fecundity (ii) Children
(iii) Occurrence of birth (iv) Population
3. Infant Mortality serves as one of the best indices to general _____ of a society.
(i) Death (ii) Birth
(iii) Healthiness (iv) Age
4. _____ is a powerful tool for measuring the probability of life and death for various age sector.
(i) Life table (ii) Census
(iii) Registration Method (iv) Population
5. _____ is an exercise of calculating the future values of given population.
(i) Life table (ii) Census
(iii) Migration (iv) Population Projection

SECTION-B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

6. a) Bring out the special features of Census.
OR
b) Narrate the difference between Registration and Census method.
7. a) Explain about Fertility.
OR
b) State about Reproduction rates and its types.
8. a) Outline about Crude death rate along with its merits and demerits.
OR
b) Describe Infant Mortality rate.

Cont...

9. a) Analyse about Life tables.
OR
b) Sketch about Migration.
10. a) State about Population Projection.
OR
b) Explain Inter-Census Estimate.

SECTION-C (30 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 6 = 30)

11. a) Enumerate Source of demographic data.
OR
b) Outline the uses of Vital Statistics.
12. a) Compute the specific fertility rate, GFR, and TFR along with Gross reproduction rate from the data given below

Age group (Years)	15-19	20-24	25-29	30-34	35-39	40-44	45-49
No. of women (in 1000's)	25	20	18	15	12	6	4
No. of live births	800	2400	2000	1500	500	120	10

It is given that out of 7330, the number of female births was 4000.

OR

- b) Outline about the types of reproduction rates.
13. a) Highlight the methods of measurement of Mortality.
OR
b) Compute the crude and standardised death rates of the two populations A and B from the following data.

Age group	A		B	
	Population	Death	Population	Death
Below 5	15,000	360	40,000	1,000
5-30	20,000	400	52,000	1,040
Above 30	10,000	280	8,000	240
Total	45,000	1,040	1,00,000	2,280

14. a) Highlight the uses of Lifetable.
OR
b) Fill in the blanks in the portion of life table given below:

Age (in years)	l_x	d_x	p_x	q_x	L_x	T_x	e_x^0
9	93832	1293	?	?	?	3699301	30.42
10	?	1210	-	-	-	-	-

15. a) Summarise the three methods of calculating the Population Projection Estimates.
OR
b) Discover the derivation for Logistic curve.

Z-Z-Z

END