

UNIT - V

9. (a) What is vital statistics?
 (b) Discuss the level and trend of vital statistics in India based on the latest data of Sample Registration System (2020) with special reference to north-eastern states. 2+12=14
10. (a) Discuss the important features and key findings of Assam Human Development Report, 2014.
 (b) In what way, Assam Human Development Report, 2014 is different from Assam Human Development Report, 2003. 10+4=14

PG (CBCS) EVEN SEMESTER EXAMINATION, 2023**ECONOMICS**

4th Semester

Course No. : ECOCC - 402

(Demography)

Full Marks : 70

Pass Marks : 28

Time : 3 hours

The figures in the margin indicate full marks for the questions
 (Answer any five, selecting one from each unit)

UNIT - I

1. (a) Are the views of Dalton and Robbins about optimum population identical? Discuss with suitable arguments.
 (b) Is optimum theory of population an improvement over Malthusian theory? Justify your answer.
 (c) State the limitations of optimum theory of population. 4+7+3=14
2. (a) Discuss Leibenstein's theory of population.
 (b) Why is it called an economic theory of population? Discuss.
 (c) Is it relevant for less developed countries? Discuss with suitable arguments. 7+3+4=14

(Turn Over)

UNIT - II

3. (a) What is population aging?
 (b) Throw light on various measures of population aging.
 (c) Is median age a better measure of population aging than mean age of population? Discuss.
 2+10+2=14
4. (a) Discuss various types of population projection.
 (b) Do the terms population projection and population forecasts convey the same meaning? Discuss.
 (c) How is cohort-component model more effective in making population projection in relation to the mathematical models? Explain with the help of suitable arguments.
 7+3+4=14

UNIT - III

5. (a) Discuss important applications of life table in economics.
 (b) State the interpretation of the term L_x in a life table.
 (c) In a life table $l_{10} = 8000$, $q_{10} = 0.0125$, $d_{11} = 80$ and $T_{11} = 316790$. Calculate the value for l_x , d_x , p_x , q_x , L_x , T_x and e_x^0 for the ages 10 and 11 years.
 (the symbols have their usual meanings)
 5+3+6=14

6. (a) Show that $NRR \leq GRR$.
 (b) Why is NRR called the best measure of reproduction? Discuss.
 (c) From the following data calculate GRR and NRR and also comment on the result. 2+8+4=14

Age group	Female population	Female birth	Survial rate
15 - 19	10000	300	0.90
20 - 24	9000	630	0.89
25 - 29	8000	480	0.88
30 - 34	7000	280	0.87
35 - 39	6000	150	0.85
40 - 44	5000	35	0.83
45 - 49	3000	12	0.80

UNIT - IV

7. (a) Distinguish between gross migration and net migration.
 (b) Explain various direct measures of estimating migration with their relative merits and demerits.
 2+12=14
8. (a) Explain L-F-R model of migration.
 (b) Point out the important limitations of L-F-R model.
 10+4=14