S – 1301

Reg. No. : ....

Name : ....

Ph.D. ENTRANCE EXAMINATION 2023

FACULTY OF SCIENCE

DEMOGRAPHY AND POPULATION STUDIES

Time : 3 Hours   Max. Marks : 100

Instructions :

1) Answer **any ten** questions each from Section **A** and Section **B.**
2) Each question carries **5** marks.
3) No additional Answer sheets will be provided.
4) Candidates should clearly indicate the section, Question number in the answer booklet.

Section – A

Research Methodology

Answer any **ten** questions. Each question carries **5** marks.

1. What is meant by social research? Examine the scope of social research in the overall development of a state.

2. Differentiate pure and applied type of social research with suitable examples.

3. What is meant by research process? Point out the various stages of research process, in social research, with its functions.

4. What is meant by research design? Point out the functions of a research design in social research.

5. Examine the various levels of measurement of variables in a social research, with special reference to demography.

6. Distinguish primary and secondary type of data, in social research, with suitable examples.

7. Elucidate the tools and techniques used for primary data collection in social research, with special reference to demography.

8. Examine the usefulness of case studies in a social research using suitable examples.

9. What is meant by sampling design? Illustrate the various steps involved in a sampling design process in a social research.

10. Distinguish probability and non-probability sampling in social research with the help of appropriate examples.

11. What is meant by descriptive statistics? Discuss the various measures of descriptive statistics used in demographic research.

12. What is meant by hypothesis? Explain the various steps involved in hypothesis testing in a social research.

13. Elucidate the applications of Student's 't' distribution in Social research with examples.

14. Discuss the different stages of report proposal writing in social research with its objectives.

15. What is meant by bibliography? Examine the features of bibliography in a social research.

(10 × 5 = 50 Marks)

Section – B

Demography and Population Studies

Answer any **ten** questions. Each question carries **5** marks.

1. Discuss the various measures of fertility with its uses and limitations.

2. Define Infant Mortality Rate (IMR). Explain the various components of Infant Mortality Rate (IMR).

3. Discuss the different measures of migration with its uses and limitations.

4. Explain the construction of an abridged life table with assumptions.

5. Examine the uses of life tables in demographic analysis.

6. Appraise the utilities of United Nations model Life Tables for developing countries in mortality analysis.

7. Discuss the usefulness of probability distributions in demographic analysis.

8. Explain the applications of Cox regression analysis in demographic analysis.

9. Examine the role of epidemiology in public health with the help of empirical evidences.

10. Elucidate the effects of non-communicable diseases in a population with special reference to Kerala.

11. Describe the derivation of stable population model with its assumptions.

12. Explain the important mathematical methods of population projection.

13. Discuss the component method of population projection with its assumptions.

14. Examine the plausible effects of population growth on economic development with suitable examples.

15. Appraise the significance of Sustainable Development Goals (SDG's) with special reference to India.

(10 × 5 = 50 Marks)

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