

**Reg. No. :** .....

**Name :** .....

**Ph.D. ENTRANCE EXAMINATION 2023**

**FACULTY OF SCIENCE**

**HOME SCIENCE**

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. Explain the types of research.
2. Define hypothesis and discuss the types.
3. Enumerate on different tools used for research.
4. Write on different parts of research report.
5. Discuss on merits and demerits of interview schedule and questionnaires.
6. Explain the measures of central tendency.
7. Detail on sampling techniques used for research.

8. Describe pilot study and primary data.
9. Differentiate independent and dependent variable.
10. Explain the steps in carrying out reviewing literature.
11. What are objectives of research?
12. Explain the ethical concerns in research.
13. Differentiate cross sectional and longitudinal studies.
14. Discuss any three forms of scientific writing.
15. Describe any three basic statistical tools used for research.

**(10 × 5 = 50 Marks)**

### **Section – B**

#### **Home Science**

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

1. Write on different mental health issues.
2. Explain the issues faced by children.
3. Explain the role heredity and environment in growth and development.
4. Describe on the recent advances in the field of food science.
5. Explain democratic decentralization.
6. Enumerate on ABCD of nutritional status assessment.
7. Define ergonomics and discuss on application in work areas.
8. Explain steps in management process.
9. Renewable energy resources and its scope – Discuss.

10. Explain the methods of dyeing.
11. Discuss on factors affecting entrepreneurial growth.
12. Detail on low cost building materials.
13. Detail on eco friendly fibres.
14. Explain the measures adopted by government to increase food production.
15. Principles of garment designing – Explain.

\_\_\_\_\_ **(10 × 5 = 50 Marks)**