



Paper-I

Research Methodology + Home Science

Full Marks: 100

Duration of Examination: 2 Hours

Questions shall consist of 3 parts:

Part-A : Short Questions (06 in number of which 04 to be answered, each carrying 10 marks) = 40

Part-B : Long Answer Question (04 to be asked of which 02 to be answered, each carrying 30 marks) = 60

1. Introduction to Research: What is Research; Why is Research Conducted; Stages in Research; Changing Nature and Expanding Scope of Research; Why Research Methodology.
2. Introduction to Major Research Methods: Natural Observation; Historical Research; Ethnographic Research; Cross-Sectional Study; Longitudinal Study; Cohort Study; Case Study; Correlational Research; Action Research; Quantitative and Qualitative Research; theoretical research, applied research and empirical research; Experimental Research: Cause and Effect Relationships, Hypothesis in Experiments, Principles of Experimentation, Classification of Experiments, Experimental Design, Requirements of a Good Experiment; Reasoning in Research : Introduction to Logical Terms; Evidences; Inductive and Deductive Reasoning; Fallacious Reasoning; Formal and Informal Fallacies; Common Fallacies.
3. Research Design: Study designs in quantitative research; Study designs in qualitative research; Other commonly used philosophy-guided designs; Choice of Variables; Constructing hypotheses, Mechanisms and Design for Data Collection; Collection of Primary Data: Observation, Interview, questionnaire and schedule Sample Surveys and Designed Experiments, Estimation without Sampling, Methods of data collection in qualitative research; Collection of Secondary Data; Data Integration; Using Publications and the Library; Using Academic Databases: Search Engines, Citation Indexes and Citation Analysis, Government of India Initiatives for

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Knowledge Management- INFLIBNET: e-ShodhSindhu, Shodhganga, ShodhGangotri, and N-List Projects.

4. Data analysis: Statistical analysis; Thematic analysis; Analysing narrative; Discourse analysis; Content analysis; Grounded Theory; Using computers in data analysis.
5. Ethics and Related Issues in Research: Concepts in Ethics in Research; Intellectual Property Rights; Scientific Values: Needed a Code of Conduct; Fraud and Misconduct in Science; Plagiarism: What is Plagiarism, Acknowledge Sources Appropriately, Paraphrasing, Direct and Indirect Quotations, Plagiarism Checking: ShodhShuddhi, UGC (Promotion of Academic Integrity and Prevention of Plagiarism in Higher Educational Institutions) Regulations, 2018, LNMU Plagiarism Policy and Regulations-2018.
6. Writing a Research Proposal: Introduction; The research problem; Objectives of the study; Hypotheses to be tested; Study design; Measurement procedures; Analysis of data; Structure of the report; Problems and limitations.
7. The Structure of a Thesis: Thesis Vs Dissertation; Parts of a Thesis; Preliminary Pages of a Thesis: Title Pages, Certificate Pages, Acknowledgements, Table of Contents, List of Tables, List of Figures, Dedication; The Subject Proper: Introduction, Review of Literature, Materials and Methods, Results, Analysis/Discussion, Summary/Conclusion, References, Appendixes; The Abstract; Formatting Requirements of a Thesis: Margins, Page Numbering, Design and Formatting of Chapters, Numbering the Sections, Lay-Out of Tables, Language and Style, Typeface and Fonts, Paper and Text Spacing; Thesis Editing.

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**Paper II- (100 marks) Credit - 04**

**Part A: Research methods in different areas of Home Science - 60 Marks (Credit-03)**

**Unit I: Food and Nutrition**

1. Assessment of nutritional status: Anthropometric, Biochemical, Clinical and Dietary assessment
2. Food supplementation, product development and organoleptic evaluation of food: Weaning food, Supplementary feeding, Food for various diseases and health conditions
3. Determining nutritive value of food: Calorie, Proteins, Carbohydrate, Fats, Minerals, Fiber

**Unit II: Family Resource Management**

1. Resource Management: Management of Human resources (time & energy) and Non-human resources (Money & Environmental resources)
2. Ergonomics: Work, worker and workplace study- Assessment of risks/hazards and suggesting remedial measures.
3. Interior Designing: Designing of buildings for people with different requirements and special needs, designing energy efficient buildings.

**Unit III: Human Development**

1. Effect of different parameters on development of human beings: Physical, emotional, psychological, social development of people at different ages.
2. Family relations: Marriage, adjustment in family
3. Child behavior and counseling: Counseling of people at different ages with different problems

**Unit IV: Clothing and Textile**

1. Clothing for special needs: clothing for different occupation, protective clothing.
2. Clothing for different ages: Clothing for child, adolescent, adult, old age; Clothing in different time frames; Social and psychological effect of clothing
3. Development and diversification of textile: Woven, printed, painted, dyed, embroidered textile of different regions.

**Unit V: Extension Education**

1. National programmes and policies: Checking awareness and effectiveness in different regions
2. Dissemination of innovations of Home Science to grass root level
3. Role of different types of media in awareness generation.

**Part B: Research Proposal - 40 Marks (Credit-01)**

Writing and presentation of research proposal related to doctoral research topic before the students and committee

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## References

1. Research Methodology methods and techniques- By C R Kotliari and Gaurav Garg
2. Research Methods in the Social Science  
By David Machmain and Chava Machnain
3. Research methods in Social Science  
By B.A.V. Sharma, D. Ravindra Prasad and P. Satya Narayana
4. Doing Social Research - By Leonard Cargan
5. Key concept in social research - By Geoff payne & Judy Payne
6. Statistics in Psychology, Sociology and Education - Dr. Arun Kumar Singh
7. शोध पद्धति शास्त्र - प्रो. (डॉ.) गोपी रमण प्रसाद सिंह
8. सामाजिक अनुसन्धान सर्वेक्षण एवं सांख्यिकी - डॉ. गणेश पाण्डेय
9. शिक्षा और मनोविज्ञान में सांख्यिकी के प्रयोग - हेनरी ई. गैरिट
10. सामाजिक शोध व सांख्यिकी - रविन्द्र नाथ मुखर्जी

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