

Part - A

RESEARCH APTITUDE COMPONENT

M.M.: 50

Introduction to research in Home Science:

- Definition of research, science and scientific method.
- Objectives of research: Explanation, control and prediction.
- Importance, present status and future directions for research in Home Science

Applications of Research in Home Science

- Broadening the concept of research in Home Science through the interdisciplinary approach.
- Improving the quality of research in Home Science
- Planning and writing for grants in the field of Home Science

Exercises with special reference to Home Science.

- Identification of research goals.
- Scientific Methods
- Types of research, research design.
- Sampling techniques and methods of data collection.
- Analysis, interpretation and inference.

Analysis and Interpretation of data gathered

- Qualitative analysis: Content analysis
- Quantitative analysis: Statistical analysis
t-test, chi-square, ANOVA and Correlation
- Use of tables and illustrations in data analysis.
- Computer Applications in Home Science research

Research Communication:

- Characteristic and organization. *Different types of presentations: WRITTEN, ORAL & POSTER.*
- Different forms of scientific writing - Articles in Journals, research reports, review articles, dissertations, book chapters and articles.
- Writing process- using outlines, drafting and redrafting

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Management of Educational Institutes—Pre-school, Primary and Secondary Schools;
(Colleges and Universities) Higher Educational Institutes

Management of Special Institutes for physically, mentally and socially challenged

Challenges and problems faced by Institutions

Unit—IV : Clothing

Principles of clothing—Socio-psychological aspects of clothing, selection of fabrics, clothing and family clothing

Clothing construction—basic principles of drafting, flat pattern and draping methods

Textile design—principles and concepts

Fashion design—fashion cycles, business and merchandizing

Care and maintenance of textile materials and garments; Laundry agents—methods and equipments

Unit—V : Textiles

General properties and fine structure of all textile fibers

Processing and manufacture of all natural and man-made fibers

Definition and classification of yarns; Identification of yarns and its use in various fabrics

Fabric construction, definition and types of woven, non-woven, knitted and other construction techniques

Testings of fibers, yarns and fabric; Importance of quality control and research institutes

Unit—VI : Resource Management

Concept of Home management and steps

Management of Human Resources; Classification of Resources; Basic Characteristics of Resources

Decision making in family; Steps in decision making; Methods of resolving conflicts

Work simplification; Importance of work simplification in home; Mundel's classes of change; Simple pen and pencil technique in work simplification

Housing, Interior design, Principles of Interior design, Various colours and colour schemes

Household equipment—Selection and Care

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P.G. Department Of Home Science
University Of Jammu

Subject: Home Science

Academic component

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There will be 50 multiple choice objective type questions (with alternative responses) covering the following syllabi. Each question carries one mark & candidate will have to attempt all the questions of this component. The questions will be spread over the entire course (5 questions from each unit)

PAPER-B

Unit-I : Food Science

- Food Groups
- Food Preparation
- Food Preservation
- Food Science and Food Analysis
- Food Processing

Unit-II : Nutrition Science

- Fundamentals of nutrition
- Nutritional biochemistry
- Food microbiology
- Public nutrition
- Therapeutic nutrition

Unit-III : Institutional Management

- Management of Hospitality Institutes—Hospital/Hotel/Restaurant/Café and Outdoor catering
- Management of Social Institutes—family as Institute, child care and Geriatric institutes, Panchayats

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Human Development
Child Development—Principles and Stages
Life Span Development—Theories of Human Development and Behaviour
Child rearing, Socialization practices and Dynamics
Early Childhood Care and Education—Emerging trends
Development problems and disabilities during childhood and adolescence, guidance and counselling
Advanced child study methods and assessment
Women's Studies, Family Welfare Programme—Recent Approaches

Unit—VIII : Non-formal Education and Extension Education

History and Development of Home Science in Formal/Non-formal and Extension Education
Theory and Practices of programme/curriculum planning and development
Management and Administration of Formal/Non-formal and Extension Education
Monitoring, Supervision and Evaluation of Formal, Non-formal and Extension Education
Vocationalization of Home Science in India
Theories and Principles of Guidance and Counselling in Formal/Non-formal/Extension
Problems and Challenges encountered in Formal/Non-formal/Extension

Unit—IX : Developmental and Educational Communication

Concept and classification of communication
Traditional Methods and Materials of communication—selection/preparation/use
Modern methods and materials of communication—selection/preparation/use
Strategies for developmental communication
Classroom communications in Home Science trends
Communication for publicity and public relations
Change and challenges in communication in contemporary society

Unit—X : Methods of Research

Trends in Research in Home Science
Research Designs
Types of Research

Sampling Techniques

Selection and Preparation of Tools for data collection

Type of variables and their selection

Data collection and classification/coding

Analysis of data through parametric and non-parametric statistics

Report writing—presentation of data, interpretation and discussion

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Note for Paper setting :

The paper shall have two components

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| i) Research Aptitude component | : | 50 marks |
| ii) Academic Component | : | 50 marks |

Research aptitude component shall be of descriptive nature and there shall be eight questions in this section. Every candidate shall attempt five questions out of the ten questions. Each question shall carry 10 marks and the candidate shall answer every question in about 300 words. The section shall cover the areas/specialization in a particular discipline.

In the Academic component, there shall be 50 multiple choice objective type questions with four alternatives responses.

Each question shall carry one mark and candidate shall attempt all the 50 questions of this component.

The duration of test shall be three hours.

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