

Pt. Ravishankar Shukla University, Raipur (C.G.)

**Ph.D Entrance Examination**  
**Syllabus for Home Science**

The entrance exam will be of 2 hours. The entrance exam shall be consisting of two parts carrying 100 marks in total. Part A will be of objective type multiple choice questions of 60 marks( 30 questions each of 2 marks) and part B will be of 8 short answer type questions of 40 marks (each of 5 marks, at the most of 50 words.). The result of the entrance exam will be announced on the same day and displayed on the notice board.

**Syllabus:-**

- **Meaning, Definition, Objectives, Importance, Areas & Types of Research. Stages in the development of research.**
- **Hypothesis- Meaning, Functions, Formation and Importance.**
- **Data Sources- Primary and Secondary. Data Collection Techniques. Tabulation of data.**
- **Sampling – Meaning, objectives and types of samples.**
- **Analysis, Interpretation and Presentation of data.**
- **Writing a research project.**
- **Nutrients their sources and functions, food groups, food exchange lists.**
- **Nutritional requirement of various age groups.**
- **Estimation of energy requirement of individuals and groups.**
- **Current methodologies for assessment of nutritional status and their interpretation.**
- **Improvement of nutritive value of various foods- enrichment, fortification, sprouting, fermentation, substitution, supplementation.**
- **Food preservation.**
- **Therapeutic adaptation of normal diet.**
- **Malnutrition.**

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- Stages of development.
- Factors affecting human development.
- Methods of studying human development.
- Exceptional children.
- Development of personality.
- Family in social context and socio cultural studies of family background.
- Principles and process of counseling.
- Etiology of mental disorders.
- Importance and objectives of process of home management.
- Factors affecting consumer, consumer protection, Govt. legislations.
- Family resources.
- Ergonomics.
- Principles and methods of energy conservation.
- Elements and principles of art and design.
- Various color schemes.
- Principles of laundry science, water, soaps and detergents.
- Fibre, its sources, classification and their manufacturing.
- Textile finishes.
- Colours and dyes, Dying and printing techniques.
- Principles and types of design.
- Construction of fabric.
- Principles of stitching and garment construction
- Preliminary textile testing.
- Fashion its concept, components of fashion.

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