1. Knowledge of Subject concerned: Senior Secondary Level

- Home Science - Education meaning, definition, scope, objectives and history.
- Changing concept of different areas of Home Science.
- Definition, functions and classification of foods.
- Nutrients and their composition, sources and functions.
- Balanced Diet.
- Methods of cooking.
- Home Management definition.
- Motivating Factors - value, goals and standard.
- Resources - classification and characteristics.
- Income - definition, meaning and types.
- Budget - steps.
- Saving and Investment
- Fibre - types and properties - Natural and Man-Made
- Yarn construction
- Weaving - types.
- General principles of clothing construction
- Definition of Child Development, Human Development
- Scope of Human Development.
- Principles of growth and Development.
- Role of Heredity and environment.
- Life span stages.
- Types of Development
- Definition of Developmental tasks and different tasks, different stages of human development.
- Characteristics of different age groups and their physiological and behavioral problems.
- Meaning, concepts and scope of special education and classification of children with special needs.

2. Knowledge of Subject concerned: Graduation Level

- Changing concepts of Home Science.
- Areas of Home Science - objectives and scope of each area.
• Professional organizations and Research Institutes, contributing to different areas of Home Science.
• Formal, Non-formal and Informal education.
• Programme planning, Implementation and Evaluation.
• Government and NGO’s Development Programmes.
• Meaning, definition, principles and basic elements of extension education.
• Extension teaching methods.
• Communication concepts and meanings.
• Different types of communication Aids.
• Nutrients- their composition and sources.
• Recommended dietary allowances and deficiencies.
• Nutritive value of important cereals, pulses, vegetables, fruits, milk and milk products, eggs, meat and fish.
• Methods of cooking- their effects on nutrients and methods of enhancing the nutrients value of foods.
• Selection, purchase and storage of foods.
• Food spoilage.
• Food preservation- importance, principles and methods.
• Food adulteration- causes, identification, preventive and control measures, food laws and standards, labels, etc.
• Changing trends in food consumption- fast foods, junk foods etc.
• Nutritional status- concept, assessment methods.
• Principles of meal planning.
• Diets of normal individual of different ages, sex, profession and physiological condition.(Pregnant and lactation)
• Dietary management during different diseases.
• Concept and type of community health and community nutrition.
• Nutrition problems of community and implication for public health.
• Current situation in India.
• Nutritional Assessment and Surveillance.
• Nutrition and health communication.
• Management Process- Planning, controlling and evaluation.
• Decision Making.
• Management of Resources- Time, money and energy.
• Work simplification- meaning, importance and its application in various household activities.
• Introduction of foundation of art- design, elements and principle of design.
• House planning/space designing.
• Selection and types of furniture and furnishing.
• Financial and legal consideration- availability of funds for having housing.
• Interior designing and Principles of arrangements.
• Definition, meaning and need of consumer.
• Market, consumer education methods, contents and sources.
• Consumer Aids and consumer protection.
• Taxation- need, types, effect of tax on work and saving.
• Wills and trusts.
• Early identification, treatment, prevention and rehabilitation of each category of children with special needs.
• Meaning, importance and objectives of Early Childhood care and Education.
• Different types of Early Childhood Care and Education Centers.
• Concept of adolescent and adolescence stage and problems of adolescence stage.
• Meaning and definition of marriage, types and functions of marriage, factors of mate selection.
• Meaning and definition of family, types of family
• Population education and dynamics.
• Yarn making, weaving and other methods of fabric construction and their effect on appearance, durability and maintenance of garments.
• Different types of finishes.
• Selection, care and storage of different types of clothes including readymade garments.
• Importance of clothing, social and psychological aspects of clothing.
• Functions of clothing construction drafting and making of paper patterns.
• Body measurement- importance of taking body measurements and its relation to sizes and different types of garments.
• Preparation of fabric cutting- layout, pinning, marking and cutting.
• Wardrobe planning.
• Selection of fabrics and garments for adolescent, men and women.
• Selection and buying fabrics for various users.
• Elements, principles of design in clothing.
• Traditional Textile of India.
• Fashion Terminology and fashion cycle.

3. Knowledge of Subject Concerned : PG Level

• Extension Management and Administration.
• Extension Programme Management
• Adoption and Different of Homestead technologies.
• Participating Extension Approaches – RRA, PRA and PLA.
• Participating Communication.
• Extension Planning methods.
• Communication Strategy.
• Print and Oral Communication.
• Women Empowerment.
• Entrepreneurship.
• Different methods of enhancing the nutritive value of foods – fortification.
• Food adulteration – causes, identification preventive and control measures.
• Inter-relationship of agriculture, food, nutrition, health and population.
• Energy needs, basal metabolism and total energy requirement.
• Digestion, absorption and utilization of major nutrients.
• Nutritional Status.
• Nutritional problems in the country with special references to Rajasthan Nutrition Intervention.
• Dietary management during different diseases.
• Nutrition Policy in India.
• Nutrition Problems of community and implication for public health.
• Different organizations / Programmes working for children with special needs.
• Administration and Supervision of Early Childhood Care and Education Centres / institutes.
• Need of Guidance and Counseling at each life span stage of development.
• Marital adjustment, legal aspects of marriage. Role of mother and father in the family. Functions (Traditional and Modern) of the family and factors affecting family functions.
• Meaning and stages of family life-cycle.
• Family welfare organizations (Government and Non Government) in India.
• Parenting Styles and impact of these styles on the children.
• Family planning measures, Reproductive Health.
• Family disorganization.
• Factors influencing residential planning.
• Space designing according to various activities and family needs.
• Kitchen – Types and Storage ergonomics.
• Illumination – purpose, Types, Lightening – types – unit of measurement, glare, Fixtures – types & selection.
• Furniture – types & selection.
• Furnishing & accessories - types & selection.
• Work ergonomics – Meaning & Concept.
• Work Physiology – Introduction, definition & types of work static and dynamic.
• Physiological factors influencing.
• Working environment.
• Fashion terminology, sources, fashion cycle and season.
• Factors favouring of fashion cycle and season, Consumer demand and fashion marketing and fashion change.
• Paper pattern – basic designing
• Draping
• Readymade Garment need and Criteria.
• Future trends in fashion technology.
Dyes and their effects.

Part – IV (Educational Psychology, Pedagogy, Teaching Learning Material, Use of computers and Information Technology in Teaching Learning)

1. Importance of Psychology in Teaching-Learning:
   - Learner,
   - Teacher,
   - Teaching-learning process,
   - School effectiveness.

2. Development of Learner
   - Cognitive, Physical, Social, Emotional and Moral development patterns and characteristics among adolescent learner.

3. Teaching – Learning:
   - Concept, Behavioural, Cognitive and constructivist principles of learning and its implication for senior secondary students.
   - Learning characteristics of adolescent and its implication for teaching.

4. Managing Adolescent Learner:
   - Concept of mental health and adjustment problems.
   - Emotional Intelligence and its implication for mental health of adolescent.
   - Use of guidance techniques for nurturing mental health of adolescent.

5. Instructional Strategies for Adolescent Learner:
   - Communication skills and its use.
   - Preparation and use of teaching-learning material during teaching.
   - Different teaching approaches:
     - Teaching models- Advance organizer, Scientific enquiry, Information, processing, cooperative learning.
   - Constructivist principles based Teaching.

6. ICT Pedagogy Integration:
   - Concept of ICT.
   - Concept of hardware and software.
   - System approach to instruction.
   - Computer assisted learning.
   - Computer aided instruction.
   - Factors facilitating ICT pedagogy integration.
Paper – II Subject Concerned

Duration : 3 Hour

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<th>No. of Questions</th>
<th>Total Marks</th>
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<td>Knowledge of Subject Concerned : Senior Secondary Level</td>
<td>55</td>
<td>110</td>
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<tr>
<td>2</td>
<td>Knowledge of Subject Concerned : Graduation Level</td>
<td>55</td>
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<td>3</td>
<td>Knowledge of Subject Concerned : Post Graduation Level</td>
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<td>Educational Psychology, Pedagogy, Teaching Learning Material, Use of Computers and Information Technology in Teaching Learning.</td>
<td>30</td>
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<td><strong>Total</strong></td>
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**Note :**
1. All the question in the Paper shall be Multiple Choice Type Question.
2. Negative marking shall be applicable in the evaluation of answers. For every wrong answer one-third of the marks prescribed for that particular question shall be deducted.
   Explanation : Wrong answer shall mean an incorrect answer or multiple answer.