

Pos - Ph.D Entrance Test Syllabus for Home science.
For - 2020 Exam

Advanced Nutrition and Therapeutic Nutrition

- (i) Energy Metabolism: Determinants of energy value of Food – Bomb Calorimeter. Proteins- Classification of protein and amino acids, structure , properties and function of proteins
Lipids- Classification of Lipids, Structure, properties and functions of Lipids
- (ii) Importance of nutrition in health and disease, Objective and principles of Diet therapy
- (iii) Diet therapy and Modified therapeutic diet- Soft diet, Liquid diet, Bland diet, High and low calorie diet, High and low protein diet
- (iv) Meal planning- Principles and factors to be kept in mind
- (v) Etiopathogenesis, Clinical features and dietary management of:
 - Cardiovascular diseases: Hypertension, Hyperlipidemia, Atherosclerosis
 - Diabetes Mellitus: Insulin dependent and non-insulin dependent
 - Acute and chronic liver disorders: Hepatitis, cirrhosis of liver
 - Renal disease

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For

HOD

P.G Dept of Home Science
J.D. women's college
PATNA.

Child development : Prenatal to Preadolescence

- (i) Introduction to development- Stages and principles of growth and development, Individual differences, heredity and environment
- (ii) Prenatal development- Conception, Stages of prenatal development, Types and stages of birth process
- (iii) Infancy (0-2 years)- Physical description, Sensory capacities and reflexes of Neonates, early language development
- (iv) Early Childhood (2-6 years)- Physical and Motor development, Social and cognitive development
- (v) Late Childhood (6 – 12 years)- Physical and Motor development, Social relationship, peer, siblings and parents

Textile and Clothing

- (i) A brief study of characteristics of different textile fibres used for clothing. Origin , manufacturing and uses of cotton, wool, silk, jute and synthetic fibres.
- (ii) Yarn and their manufacturing
- (iii) Fabric manufacture- Type of Weave: Basic and decorative, finishing process
- (iv) Scientific basis of dyeing and printing of textile.
Design analysis : Type of design- Structural and decorative
- (v) Traditional Indian textiles and Embroideries

Research Methodology

- (i) Foundation of Scientific research. Research: meaning and definition.
Need of research in Home Science
- (ii) Hypothesis, Research, Design , meaning and purpose
- (iii) Sampling procedure- Meaning, types, merits and demerits
- (iv) Data gathering instruments:
 - (a) Observation
 - (b) Questionnaire
 - (c) Interview
- (v) Report writing and Thesis writing

Concept of Home- Management

- (i) Management as a system- Definition, Elements, Types, Application in Family resource management
- (ii) Management process-
Planning- Objectives, Principles
Organising- Purpose, Process, Evaluation
- (iii) Time and Energy management- Time and energy management in study of Ergonomics
- (iv) Work Simplification- Work simplification Process and time motion economy