

PG TRB

SUBJECT : HOME SCIENCE

UNIT-I

- ❖ Methods of Collecting data- Conducting statistical enquiries to collect primary data. Source of secondary data - Preparation of schedules and questionnaire. Pretesting data. Interview Methods of enquiry.

UNIT-II

- ❖ Classification and organization of data collected classification by categories and measurement- Discreets and continuous variables. Tabulation schemes - Preparation of tabular forms- Methods of securing accuracy in tabulation.

UNIT-III

- ❖ Mesures of Central Tendency- The mean, median and mode, their relative advantages and disadvantages. Measures of dispersion. The mean deviation, standard deviation, quartile deviation - coefficient of variation.

UNIT-IV

- ❖ Graphic and Diagrammatic Representation- Bar diagrams, Pie diagrams, scatter diagrams, Histograms, frequency polygons, frequency curve, ogive, logarithmic graphs.

UNIT-V

- ❖ Microbiological Intoxications and Infections. Toxin production significance of toxic organism like clostridium botulinum, staphylococci and clostridium perfringes. Sources of infection through foods by pathogenic organisms. Symptoms and methods of control and prevention of infection.

UNIT-VI

- ❖ Food Hygiene- Sources of contamination of food. Microbial indicators of hygiene. Significance of cleaning and sanitizing agents. Hygienic handling, processing and packaging of food. Lessons for India.

UNIT-VII

- ❖ Application of art principles in interior decoration. Colour scheme for different rooms, furniture arrangement, flower arrangement and accessories. Optical illusion in interior decoration.

UNIT-VIII

- ❖ Clothing selection. Importance of clothing and accessories to express individually and distinction in apperance. Application of basic art principles in achieving a pleasing personality. Study of figure irregularities and methods of minimizing the effect.

UNIT-IX

- ❖ Nutrition in pregnancy and lactation. Physiological implication of pregnancy and lactation. Nutritional requirements during pregnancy and lactation. Impact of nutrition on the outcome of pregnancy and efficiency of milk production. Public Health measures for the pregnant and lactating mothers.

UNIT-X

- ❖ Nutrition in Infancy. Physical and mental development- prenatal and postnatal. Nutritional requirements during infancy. Feeding of infants- value of breast feeding versus artificial feeding. Types of milk and their use in infant feeding. Weaning- Supplementary foods and infant weaning foods. Nutritional disorders infancy. Common diseases in infancy. Feeding the sick child. Immunisation schedule.

UNIT XI - MANAGEMENT AS A SYSTEM

- ❖ Definition of system components of Management system-Input, throughput, output and feedback. Characteristics of system. Factors influencing management Unit-XII TIME AND ENERGY MANAGEMENT Factors affecting use of time. Tools in time management. Effective use of body- body mechanics in energy management. Types and causes of fatigue work simplification- techniques and principles- Ideas for simplifying work tasks.

UNIT XIII - FINANCIAL MANAGEMENT

- ❖ Values and goals in financial management. Income- Types of income- Expenditure budgeting. Savings- types and institutions. Use of credits. Records in maintaining accounts.

UNIT XIV - COMMUNICATION

- ❖ Meaning and importance of communication. Communication and social changes. Communication process. Factors affecting communications. Barriers in communication. Growing popularity of mass media communication. Recent trends in communication media.

UNIT XV - FOOD SCIENCE

- ❖ Changes in food due to cooking, physical and physico-chemical changes in foods in relation to cookery, gel formation, denaturation of protein. Properties of Colloids, emulsion. Stabilisers and browning reactions.

UNIT XVI - DIETETICS

- ❖ Therapeutic adaptation of normal diet, calculation and Planning of normal diet. Modification of diets in relation of gastro intestinal disorders including those of the liver. Cardiovascular conditions and renal disorders.

UNIT XVII - NUTRITION NEEDS

- ❖ Preschool age, school age, adolescence, adult and old age, Growth and development during preschool and schoolage. Changes of growth during adolescence. Prevalence of malnutrition in children and adolescents. Supplementary foods- Feeding programmes.

UNIT XVIII - COMMUNITY NUTRITION

- ❖ Assessment of nutritional status- Need for assessment methods, anthropometry, clinical assessment, food weighing and biological analysis. Organisation working for nutritional improvement Indian Council of Agricultural Research, Indian Council of Medical Research, State Nutrition Councils and Bureaus, Extension programmes. The Applied Nutrition Programme, ICDS, SNP etc., Central Food Technological Research Institute, Voluntary Bodies, special programmes such as Nutrition Noon Meal Scheme. Midday Meal programmes International Organisations such as FAO, WHO, UNICEF, CARE, AFPRO, CWS, CRS, IBP, World Bank and others.

UNIT XIX - TEXTILE DESIGN

- ❖ Printing and dyeing. Different methods of hand printing- Block printing, Resist printing methods- Stenciling, tie and dye, screen printing and bathik.

UNIT-XX

- ❖ Sources of consumer Information and protection- Information- Advertisement display, labels, journals and magazines. Protection- Standardisation, ISC standards, consumer organizations.

Educational Psychology

Unit - 1

Pre-primary Education - Programme of Pre-primary Education - universalization of Primary Education - Equality of opportunity - Secondary and Higher Secondary Education - Need for uniform pattern - Non-formal and Adult Education - Functional Literacy Programme - Programmes for workers in industry - programme for dropouts - Role of Educational institutions in Non-formal Education - Open School / Open University, Quantity and Quality of Education - State and National leave - Unemployment and underemployment - Delinking employment from degrees - Skill development - Vocation Skill oriented education - Man power planning and education Brain drain - Special problems of rural and tribal people - illiteracy and poverty - Eradication of poverty through Education.

Unit - 2

National integration - International understanding - Value Education in action- Nation and health - sanitation - Safety and first aid - Women's education - Education for handicapped Education for gifted - Population Education - Need for protecting the environment - Environmental Education - Language policy - Medium of education - channel of international communication Management of Schools, private, aided, Government, Local authorities - Government Department of education, administration and academic supervision - Headmaster / Headmistress as an administrator and academic supervisor.

History and Culture of Tamil Nadu:

Unit - 3

Political - Spiritual - Religion - Literature - Language - Education - Natural Resources - Trade - Occupations - Historical places - Tourist centers - Arts - Games - Society.



Unit -4

The Learner, Learning process - Learning situation - Significance of Education Psychology to the teacher concept of growth and maturity - development characteristics and trends - Development tasks and education - Development of mental abilities - Attention, inattention and distraction - span of attention, sensation and perception - factors in perception - Errors - concept formation - Piaget's states of cognitive development - concept maps language. Imagination, thinking and reasoning - Psycholinguistics - Implications for the teacher.

Unit -5

Special characteristics of adolescents and their problems, attitudes, interest, group behavior, Discipline Leadership - Nature and importance of learning - individual differences in learning - Learning curves - Transfer of learning - Learning styles - Factors in learning - Types of learning - Trial and error - Conditioning - Classical and operant - Learning by insight - Imitation - Levels of learning - Remembering and forgetting - Learning Disabilities.

Unit - 6

Motivation - Maslow's hierarchy of needs - roles of rewards and punishments - Levels of aspiration - Achievement motivation - Goal as a motivational factor - Nature of intelligence - Theories of intelligence - Assessment of intelligence - IQ constancy - Distribution - uses of intelligence test - Creativity - Creativity and intelligence - Identification and promotion of creativity - Meaning of personality - Factors influencing personality - Assessment of personality - integrated personality - concept of mental health hygiene - conflict and frustration - Unrest - Adjustment - Defence mechanisms - Mental illness - Guidance and counselling.



Unit -7

Meaning of educational innovation - principles involved in innovation - Emergence of school -In cultural, social and religious setting - Innovations that emerged from educational experiments-Tagore:- Santi Niketan- Gandhiji:- Basic Education - A.S.Neill;- Progressive School -Sri Aurobindo :- Ashram Schools. Rousseau: Children's Education - Montessori - Sense Experience - Bertrand Russel- Education for Social Order - Froebel-Kindergarten- Dewey- Pragmatic life J. Krishnamoorthy-Freedom in learning situation. Influence of Psychological factors on innovation - principles underlying self-learning devices. Piaget- Experiment's and discovery learning - Child- centered learning. Effects of cultural, religious and social factors on innovation- Principles of equality - conformity to common educational goals.

Unit -8

Modernization of education - National Educational Policy (1986) - DPEP Special focus on Teacher Education (DTERT, DIETs, BRCs, CRCs) MLL based curriculum and syllabus - Joyful learning - Autonomy in institutional structures - Individual freedom- Library based learning: Self-paced instruction -pace setting schools - Mobile schools- De-Schooling and non-classroom learning - community schools - school complex Distance education and open learning- Education through mass communication - special education -Sainik school - Defence academy - Educational Technology - need for and use of Instructional technology - mass media for instructional purposes - Review of radio and TV educational programmes - educational computing.

Subject: General Knowledge

Marks - 10

Unit-I Indian History

History of India - Vedic period 1526 AD to 1947 - Free India - Modern India

Unit – II Indian Constitution

Origin of Indian Constitution - Salient and special features - Fundamental rights - Legislature - Judiciary Executive - Audit franchise - Human rights.

Unit – III History of Tamil Nadu

Ancient period - Sangam age - Chera, Chola, Pandya's - Economical, political, Social Conditions - Literature Architecture - Fine arts - Geography of Tamil Nadu - Natural boundaries - Resources - Rivers and places.

Unit-IV Personalities Books and authors - Discoveries

Unit-V Sports & Games Confined to India

Unit- VI Abbreviations

Unit – VII Every Day Science

Unit-VIII Current Affairs

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