

FOOD PRESERVATION TECHNIQUES

Time: 3 hrs

PRACTICAL

Marks : 50

- Preparation, organoleptic evaluation and costing of –pickles.
- Preparation, organoleptic evaluation and costing of - jams &marmalade.
- Preparation, organoleptic evaluation and costing of - sauces, ketchup,chutneys.
- Preparation, organoleptic evaluation and costing of - fruit juices, squash, crush, cordial, sweetened juices, fruit & synthetic syrups, fruittoffees and fruit candies.
- Preparation, organoleptic evaluation and costing of – *pappad&varian*.
- Sun drying of seasonal vegetables and calculating their dehydration and rehydration ratio.
- Dehydration of available vegetables/ fruits usingmicrowave.
- Visit to cold store & food processing industry & report writing for thesame.
- Prepare a scrap file of packaging/ photos of food preserved by different techniques.

(ii)TRADE : GARMENT MAKING

PAPER-I

TEXTILE SCIENCE

THEORY

Time : 2 hrs

Theory : 30 Marks

CCE : 10 Marks

Practical : 50 Marks

Total : 90Marks

Fibers

Introduction, Classifications, Physical and Chemical Properties, Identifications, Uses, Care and Description of - Natural Fibers, Vegetable Fibers - Cotton and Linen, Animal Fibers - Silk and Wool, Manmade and Synthetic Fibers - Rayon and Nylon.

Yarns

Types of Yarns, Simple Yarns - Single, Multi-Ply, Cable or Cord, Novelty Yarns - Slub, Flock, Boucle, Loop, Ratline & Gimp, Nub & Knot Stitch, Cock screw and Chanile Yarns, Textured Yarns.

Weaves

Introduction to different types of Weaves, Plain Weaves - Rib, Basket, Twill, Satin, Sateen, Novelty Weave - Pile (Cut and Uncut), Leno, Dobby, Jacquard, Crepe, Grain of Fabric - Definition & Types of Grain, How to Identify Grain in a Fabric, Parts and Working of a Traditional Loom.

Dyes

Introduction to Dyeing, Classification of Dyes as per their Application - Natural, Direct, Acidic, Basic, Sulphur Soluble Vat, Reactive, Disperse, Oxidation Dyes and Pigment Colors.

Finishes

Purpose, Types & Understanding the Effect of Some Common Finishes used in Textile Industry like Mercerization, Sanforisation, Sizing, Crease Resistance, Calendaring, Tentering and Embossing., Waterproof and Water Repellent Finish, Bleaching, Study of various kinds of Stains on Textile and their Removal.

Printing

Hand Printing - Block Printing, Screen Printing, Stencil Printing, Machine Printing - Roller Printing, Resist Printing, Discharge Printing.

TEXTILE SCIENCE

Time: 3 hrs

PRACTICAL

Marks : 50

- Identification of various textiles fibers by physical (burning and microscopic) and chemical (solubility) methods.
- Methods of washing, bleaching, starching, drying and ironing of various fabrics.
- Color fastness test to heat, sunlight, gas fumes, perspiration, humidity, washing, crocking and ironing on colored natural fabrics.
- Identification of various types of vegetable, animal, chemical and mineral stains and their removal.
- Making samples of block printing, stencil printing and screen printing.
- Making samples of tie and dye techniques.

- Identification of simple & novelty weaves by using samples of fabrics.
- Show the pattern of simple weaves on graph paper as well as with the use of ribbons.
- Making one article using block printing or tie & dye techniques.

PAPER-II

DESIGNNING AND PATTERN MAKING

THEORY

Time : 2 hrs

Theory : 30 Marks

CCE : 10 Marks

Practical : 50 Marks

Total : 90Marks

Design

Concept and types - Structural and Applied, Elements of Design - Line, Color, Texture, Form and Shape, Line - Straight, Vertical, Diagonal, Horizontal and Curved lines, Color - Theory of Color, Qualities of Color, Color Wheel, Color Schemes, Psychological Impact of Colors, Factors Affecting Choice of Colors, Principles of Design - Balance, Harmony, Rhythm, Proportion, emphasis in relation to apparel.

Sketching

Tools for Drawing and Sketching, Figure Sketching - Normal Figure, Fashion Figure, Block Figure, Flesh Figure, Eight Head Theory, Optical Illusions of - Inner Lines, Vertical Lines, Horizontal Lines, Diagonal & Curved Lines, Big and Small Checks, Outer Lines - Rectangular, Circular, Square, Triangular, Inverted, Triangular, Wide and Narrow Panels of Various Garments, Sleeves, Collars, Neck Lines, Yokes and Pockets.

Introduction

Measuring, Marking, Drafting, Cutting, Sewing and Finishing Tools.

Paper Pattern

Purpose, Principles, Techniques and use in Lay Out and Cutting, Types of Paper Pattern - Individual, Fitting, Readymade and Commercial, Terminology related to Pattern Making.

Measurements

Define Anthropometry, Importance of Accurate Body Measurements, Locating Proper Measuring Points for Children, Women and Men, Classification of Body Measurements, Direct and Indirect Measuring Methods, Standard Measurements for Children (Measurement Charts for Upper and Lower Body Garments).

Pattern Manipulation

Introduction to Pattern Manipulation and Principles of Pattern Manipulations, Adaptation of Basic Paper Pattern to Size, Shape, Darts and Fullness, Method of Adaptation of Basic Bodice Block for Developing Garment Patterns of A-Line Frock, Gathered Frock and Romper, Adaptation of Basic Bodice Block To Collar - Cape, Peter Pan, Baby, Bishop, Chelsea, Basic Sleeve Adaptation - Puff, Cap, Bell, Shirred & Ruffle, Yoke Manipulations.

Textile Painting and Printing

Meaning, Difference, Uses and Methods - Temporary and Permanent.

DESIGNING AND PATTERN MAKING

Time: 3 hrs

PRACTICAL

Marks : 50

- Design - basic lines, color - wheel, tints and tones, combinations and schemes, texture - textural combinations with fabric samples.
- Sketching - floral and geometrical motifs, block figure, flesh figure, normal and fashion figure, composition of figures with pencil shading and color media, flesh figures with garments for ladies and children keeping in view the modern trends of fashion.
- Taking body measurements, their sequence and application in drafting and cutting.
- Drafting child's bodice block.
- Drafting child's sleeve block.
- Adjustment in block pattern of children.
- Drafting of A-line and Gathered frock.
- Drafting of romper.
- Drafting of night suit.
- Making paper pattern of basic bodice block, sleeves - puff, cap, bell, shirred & ruffle and collars - cape, peter pan, baby, bishop, chelsea.
- Making different types of texture paintings by using color schemes. Vegetable textures (onion, potato, lady finger, lotus stem), wax drop and wax rub textures, fevicol texture, spray texture, dry brush effect, leaf texture, thumb printing, sand texture, smoke texture, thread rolling, thread crumple and thread pulling textures.

PAPER-III

CLOTHING CONSTRUCTION

THEORY

Time : 2 hrs

Theory : 30 Marks

CCE : 10 Marks

Practical : 50 Marks

Total : 90Marks

Sewing machine

Types - Hand, Treadle and Electric, Main Parts, their Operations and Safety Measures, Different Types of Stitching Adjustments, Attachments and their Uses, Minor Defects and their Remedies - Manual Machine Only, Sewing Threads - their Number, Sizes and Uses with relation to Needle and Cloth.

Basic Processes for Garment Making

Basic Stitches - Even and Uneven Basting, Running Stitch, Back Stitch, Blanket Stitch, Button - Hole, Hemming, Slip Stitch - Invisible Hemming, Lock Stitch, Decorative Stitches - Lazy-Daisy, Chain, Satin Stitch, Herring Bone, Feather-Long and Short, French Knot, Patch Work, Mirror Work Cross Stitch and Beading, Seams and Seam Finishes - Plain Seam, Counter Hem Seam, Lapped Seam, Run & Fell Seam, French Seam and Top Seam.

Principles of Garments Making

Preparation of Fabric - Shrinking, Straightening, Ironing, Placing, Marking, Cutting and Handling of various type of Materials, Selection of Trimmings, Supporting Fabric - Lining, Interlining, Fastener.

Disposal of Fullness Pleats

Knife, Box, Inverted, Darts, Tucks - Pin Tucks, Inverted Tucks, Cross Tucks, Space Tucks, Shell Tucks and Wide Tucks, Gathers, Smocking, Shirring, Couching, Frills and Ruffles, use of Can - Can Net Fabric.

Plackets

One Piece and Two Piece Placket Opening for - Ladies' Shirt/ Kurta, Pant, Skirt, Gents' Shirt/ Kurta, Pant and Shirt.

Fastener

Press Buttons, Hooks and Eyes, Eyelets Buckles, Button, Button Holes, Zippers, Velcro Tape, Ring Buttons and Jean Buttons.

Edge Finishes

Facing and Binding Both Biased and Shaped, *Pico*, Interlocking and Pinking.

CLOTHING CONSTRUCTION

Time: 3 hrs

PRACTICAL

Marks : 50

- Identification and maintenance of tools and equipments of dress making.
- Sewing machine (manual only) - types, main parts, operation and care, main adjustments while operating sewing machine, special attachments and their use, minor defects and rectification.
- Selection and use of different threads and needles for various fabrics.
- Making samples of -
 - Basic stitches - even and uneven basting, running stitch, back stitch, blanket stitch, button-hole, hemming, slip stitch - invisible hemming, lock stitch.
 - Decorative stitches - lazy-daisy, chain, satin stitch, herring bone, feather-long and short, french knot, patch work, mirror work, cross stitch and beading.
 - Seams - plain seam, counter hem seam, lapped seam, run & fell seam, french seam and top seam.
 - Disposal of fullness pleats - knife, box, inverted, darts, tucks - pin tucks, inverted tucks, cross tucks, space tucks, shell tucks and wide tucks, gathers, smocking, shirring, couching, frills and ruffles and use of can - can net fabric.
 - Fasteners - press buttons, hooks and eyes, eyelets buckles, button, button holes, zippers, Velcro tape, ring buttons and jean buttons.
 - Edge finishes - facing and binding both biased and shaped, *pico*, interlocking and pinking.
- Drafting, pattern making and stitching of basic bodice block and basic sleeve block for children, drafting, pattern making and stitching of - formal baby frock, romper, night suit, skirt-top.
- Adapting the basic blocks for making the garments of children - frocks, shorts, romper, night suit.

- Estimation of the fabric - simple cotton and silk/ synthetic, accessories on the basis of body measurements of children of different age groups.
- Fitting, finishing, ironing and folding of the above children garments.
- Make a Party wear frock for kids using any two design features - tucks, pleats, gathers, shirring, couching, decorative embroidery stitches etc.

(iii) TRADE : TEXTILE DESIGNING

PAPER-I

TEXTILE TESTING SCIENCE

THEORY

Time : 2 Hrs

Theory : 30 Marks

CCE : 10 Marks

Practical : 50 Marks

Total : 90Marks

- Fibres: Introduction to Textiles Fibres, Classification and Description of Various Textile Fibres (Natural, Manmade and Synthetic), Physical and Chemical Properties for Identification, Use and Care.
- Yarn Numbering System – direct and indirect numbering.
- Yarn: Types of Yarns – Single Ply, Double Ply, Novelty, Textured Yarns.
- Dyes: Introduction to Dyeing, Classification of Dyes as per their Application - Natural, Direct, Acidic, Basic, Sulphur, Indigo-sol, Soluble Vat, Reactive, Disperse, Napthol or Azoic, Chrome, Oxidation Dyes and Pigment Colours.
- Finishes - Purpose, Types and Effect of Some Common Finishes used in Textile Industry Like, Sizing, Sinzeing Crease Resistance, Tentering and Embossing Water Proof Finish, Water Resist.
- Introduction to Finishing Process-Mercerisation, Sanforisation, Calendaring, Decatizing
- Introduction to Different Fastness Tests (Light, Washing, Crocking).
- Introduction to Different Illuminants used for Shade Matching - UV, U-30, TL, D-65, Incandescent A.
- Introduction to Basic Flow Chart of Cotton from Fibre to Fabric.
- Study of Various Kinds of Stains on Textile and their Removal.

TEXTILE TESTING SCIENCE

Time : 3 hrs

PRACTICAL

Marks : 50

- Identification of various textiles fibres by physical burning.
- Identification of various textiles fibres by microscope.
- Identification of various textiles fibres by chemical solubility methods.
- Methods of washing, bleaching, starching, drying and ironing of various fabrics.
- Colour fastness test for showing effect of heat, sunlight, gas fumes, perspiration, humidity, washing, crocking and ironing on coloured natural fabrics.
- Identification of various types of vegetable, animal, chemical and mineral stains and their removal.
- Colour fastness test for showing effect of rubbing and chemicals on coloured natural fabric.