# HOME SCIENCE (Code No. 064)

(CLASS - XI 2018-19)

Home Science as a discipline aims to empower learners by developing understanding of five different areas namely:

|     | Food and Nutrition   |  |  |  |  |  |  |  |
|-----|--|--|--|--|--|--|--|--|
|     | Human Development, Childhood Studies   |  |  |  |  |  |  |  |
|     | Resource Management  |  |  |  |  |  |  |  |
|     | Fabric and Apparel Science   |  |  |  |  |  |  |  |
|     | Development Communications and Extension   |  |  |  |  |  |  |  |
|     | The subject helps students to understand changing needs of Indian society, academic principles as well as develop professional skills.   |  |  |  |  |  |  |  |
| Thi | is would make them competent to meet challenges of becoming a responsible citizen.   |  |  |  |  |  |  |  |
| kno | jectives:The syllabus at Senior Secondary level develops an understanding in the learners that the owledge and skills acquired through Home Science facilitates development of self, family and community. endeavours to - |  |  |  |  |  |  |  |
|     | Acquaint learners with the basics of human development with specific reference to self and child.  |  |  |  |  |  |  |  |
|     | Help to develop skills of judicious management of various resources.   |  |  |  |  |  |  |  |
|     | Enable learners to become alert and aware consumers.   |  |  |  |  |  |  |  |
|     | Impart knowledge of nutrition and lifestyles to enable prevention and management of diseases.  |  |  |  |  |  |  |  |
|     | Inculcate healthy food habits.   |  |  |  |  |  |  |  |
|     | Help to develop understanding of textiles for selection and care of clothes.   |  |  |  |  |  |  |  |
|     |  |  |  |  |  |  |  |  |

# CLASS XI (2018 - 19) COURSE STRUCTURE (THEORY)

□ Develop skills of communication to assist in advocacy and dissemination of knowledge to community.

One Paper (Theory) 70 Marks

Time: 3 Hours Periods: 220

| Unit |  | No. of periods | Marks |  |
|------|--|----------------|-------|--|
| I    | Concept of Home Science and its Scope          | 5              | 25    |  |
| II   | Human Development: Life Span Approach (Part I) | 40             | 25    |  |
| Ш    | Food, Nutrition, Health and Fitness            | 45             | 20    |  |
| IV   | Family, Community and Resources                | 45             | 30    |  |
| V    | Fabric and Apparel                             | 45             | 15    |  |
| VI   | Community Development and Extension (Part I)   | 5              | 10    |  |
|      | Practical                                      | 35             | 30    |  |
|      | Total  | 220            | 100   |  |

#### Unit I: Concept of Home Science and its Scope

05 Periods

- (i) Evolution of the discipline of Home Science
- (ii) Five major areas
- (iii) Relevance in improving the quality of life

#### Unit II: Human development: life span approach (Part I)

40 Periods

- (i) Introduction to different stages infancy, early childhood, childhood, adolescence, adulthood and old age
  - (a) Infancy (birth to 2 years): Physical height, weight and body proportions; motor development Social and Emotional development; expression of emotions, socialization; Cognitive and Language development during 0-3 months, 3-6 months, 6-9 months, 9-12 months and 1-2 years (milestones only);
  - (b) Early childhood (3-6 years): characteristics
  - (c) Childhood (7-11 years): behavioural problems of children and suggestive measures
- (ii) Protection from preventable disease:
  - (a) Immunization (i) concept and types (natural and acquired), (ii) breast feeding (one of the ways to develop natural immunity); (iii) immunization chart;
  - (b) Symptoms, prevention, after care and incubation period of childhood diseases: Tuberculosis, Diphtheria, Pertussis (whooping cough), Tetanus, Polio, Measles, Cholera, Diarrhoea and Chicken Pox.
- (iii) Substitute care at home and outside:
  - (a) by Grandparents, crèche/day care centres
  - (b) integrated Child Development Scheme (ICDS) objectives and functions
- (iv) Special needs and care of disadvantaged and differently-abled children: Socially Disadvantaged, Visually Impaired (partial and complete), Hearing Impaired, Orthopedically Impaired (affected/missing limb)
- (v) Managing Emergencies

First aid to cuts, burns, fractures, bites (snake, dog and insects), poisoning, fainting, asthma, heart attack, drowning.

#### Unit III: Food, Nutrition, Health and Fitness

- (i) Definition of food, nutrition, health (WHO) and fitness.
- (ii) Functions of food:
  - □ Physiological (body building, energy giving, protective, regulatory)
  - Psychological
  - Social
- (iii) Selection of food for optimum nutrition and good health:

- (a) Nutrients: sources, functions and deficiency and its prevention; Proteins, Carbohydrates, Fats, Vitamins- Fat soluble (A, D, E, K) and water soluble (B1, B2, Niacin, Folic acid, B12 and Vitamin C), Minerals (Calcium, Iron, Zinc and Iodine).
- (iv) Maximising nutritive value of food by proper selection, preparation and storage:
  - (a) Selection of foods: Fruits, vegetables, egg, fish, poultry, meat, milk and milk products, spices, cereals and pulses and convenience food.
    - Storage of foods: Perishable, semi perishable, non perishable and convenience food.
  - (b) Food Processing
    - Food spoilage & its reasons.
    - □ Food processing methods Dehydration, Freezing. Use of preservatives: Natural and chemical.
  - (c) Preparation of food:
    - Principles
    - Methods: boiling, steaming, pressure cooking, deep and shallow frying, baking, sautéing, roasting, grilling, solar cooking and microwave cooking.
    - □ Loss of nutrients and steps to minimize nutrient loss during preparation.
    - ☐ Methods of enhancing nutrient availability germination, fermentation, fortification and food combination.

### Unit IV: Family and Community Resources

- (i) Concept of Family and Community resources
- (ii) Types, Management and Conservation of:
  - (a) Human / Personal Resources: knowledge, skills, time, energy, aptitude.
  - (b) Non-human / material resources: money, goods, property.
  - (c) Community facilities / shared resources: Schools, parks, hospitals, roads, transport, water, electricity, library, fuel and fodder. (Keepingcommunity spaces clean and use of environment friendly measures)
- (iii) Management:
  - (a) Meaning and need for management.
  - (b) Steps in management: planning, organizing, controlling, implementing and evaluation.
  - (c) Decision making and its role in management.
- (iv) Time, energy and space management:
  - (a) Need and procedure for managing time and energy.
  - (b) Work simplifications: Techniques for time and energy management.
  - (c) Need and ways of space management.
  - (d) Elements of art and principles of design.
  - (e) Use of colours, light and accessories in space management; Prang colour wheel, dimensions of colours, classes and colour schemes.

- Concept

|          | (i)   | Intro | oduction to Fibre Science:   |
|----------|-------|-------|--|
|          |       | (a)   | Classifications of fibre   |
|          |       |       | □ Natural: cotton, silk and wool   |
|          |       |       | □ Manufactured: rayon, nylon and polyester   |
|          |       |       | □ Blends: terry cot, terry silk, terry wool  |
|          |       | (b)   | Characteristics of fibre   |
|          |       | (c)   | Suitability for use  |
|          | (ii)  | Fabr  | cic Construction:  |
|          |       | (a)   | Yarn making: Basic procedure of making yarn.   |
|          |       |       | □ Simple: Two Ply, Four Ply, Multiple and Cord   |
|          |       |       | □ Novelty: Slub, Knot, Flock, Spiral   |
|          |       |       | □ Blended yarns  |
|          |       | (b)   | Weaving:   |
|          |       |       | □ Basic Mechanism  |
|          |       |       | □ Concept of Looms   |
|          |       |       | □ Types of weaves - Plain (Basket and Rib), Twill, Satin and Sateenweave.  |
|          |       |       | A brief mention of special weave: Pile and Jacquard.   |
|          |       |       | ☐ Effect of weave on appearance, durability and maintenance of garment.  |
|          |       | (c)   | Other methods of fabric constructions: knitting, non-woven fabrics: felting and bonding                                |
|          | (iii) | Fabr  | ric Finishes:  |
|          |       | (a)   | Meaning and importance.  |
|          |       | (b)   | Classification of finishes:  |
|          |       |       | <ul> <li>Basic finishes: cleaning, scouring, singeing, bleaching, stiffening, calendering and<br/>tentering</li> </ul> |
|          |       |       | □ Functional Finishes: Water proofing, sanforization, mercerization, moth proofing.                                    |
|          | (iv)  | Dyei  | ng and Printing  |
|          |       | (a)   | Importance of dyeing and printing  |
|          |       | (b)   | Types and sources of Dyes-natural, synthetic   |
|          |       | (c)   | Methods of Dyeing and Printing: Plain Dyeing; tie and dye; Batik printing; Block printing.                             |
| Unit VI: | Co    | mmı   | unity Development and Extension (Part I) 05 Periods  |
|          | (i)   | Resp  | pect for girl child  |
|          | (ii)  | Med   | ia: Concept, Classification, Function  |
|          | (iii) | Com   | munication:  |

- Importance
- Method
- Types
- Elements
- Effective communicative skills
- (iv) Keeping community spaces clean

# HOME SCIENCE CLASS XI (2018 - 19)

PRACTICAL Maximum Marks: 30

Periods: 35

### I. Human Development: Life Span Approach

- 1. Visit a child care centre (Day Care/Crèche/Anganwadi/Nursery Schools/ any other). Write a report on facilities and activities.
- 2. Select a child with special needs in the neighbourhood. Write a report about her/his special requirement related to:
  - a) Care
  - b) Education
  - c) Physical Infrastructure needed
- 3. Observation of any two children in different stages of age in the neighbourhood and report on their activities and behavior.
- 4. Prepare an educational toy by using local material.

### II. Food, Nutrition, Health and Fitness

- 1. Plan and prepare a dish rich in selected nutrients (Iron, Calcium, Protein, Fibre).
- 2. Prepare one preserved product; also prepare a suitable label for it.
- 3. Prepare dishes involving the following: Germination, Fermentation and Combination.

### III. Family and Community Resources

- 1. Using elements of art and principles of design, prepare Rangoli, Flower arrangement and one accessory for decoration.
- 2. Critically evaluate your residential space and suggest improvements.
- 3. Prepare a day's routine of self, listing activities and time spent in each. Critically evaluate for improvement for time and energy saving.
- 4. Cleaning different surfaces & metals (glass, brass, silver, bronze etc.)

#### IV. Fabric and Apparel

- 1. Prepare paper samples of the following weaves: *Plain, Rib, Basket, Twill (any two), satin and sateen.*
- 2. Collect samples of various fabrics and identify the following weaves: Plain, rib, basket, twill, satin and sateen

- 3. Identification of various types of fibres using burning test.
- 4. Prepare five samples of tie and dye.

### V. Community Development and Extension

- 1. Plan message for 'respect for girl child', 'women's empowerment', 'cleanliness of public spaces' using different modes of communication for different focus groups.
- 2. Make a leaflet or a pamphlet using original slogan for consumer education on any topic.

### Scheme for practical examination (Class XI)

30 marks

| 1. | Unit I: Human Development: Life Span Approach - Project Report                     | 6 marks     |
|----|--|-------------|
| 2. | Unit II: Food, Nutrition, Health and Fitness- Any one from 1, 2 and 3 quoted above | 5 marks     |
| 3. | Unit III: Family and Community Resources- Any two from 1-4 quoted above            | 2+2=4 marks |
| 4. | Unit IV: Fabric and Apparel: Any two from 1-4 quoted above                         | 2+2=4 marks |
| 5. | Unit V: Community Development and Extension-Pamphlet etc.                          | 4marks      |
| 6. | File   | 5marks      |
| 7. | Viva   | 2marks      |

#### Reference books for teachers:

- 1. Human Ecology and Family Sciences Part I, Class- XI, NCERT Publication
- 2. Human Ecology and Family Sciences Part II, Class- XI, NCERT Publication

# **QUESTION PAPER DESIGN 2018-19**

HOME SCIENCE CODE NO. 064 CLASS-XI

TIME: 3 Hours Max. Marks: 70

| Tivic. 3 flours |   |   |   |   |  |   | nax. Iviai                                       | 113. 70        |                    |
|-----------------|---|---|---|---|--|---|--|----------------|--------------------|
| S.<br>No.       | Typology of Questions   | Learning<br>outcomes and<br>TestingSkills   | Very<br>Short<br>Answer<br>(VSA)<br>(1<br>Mark) | Short<br>Answer<br>(SA)<br>(2<br>Marks) | Case<br>study<br>and<br>picture<br>based<br>(3<br>Marks) | Long<br>Answer<br>-I (LA-I)<br>(4<br>Marks) | Long<br>Answer<br>-II<br>(LA-II)<br>(5<br>Marks) | Total<br>Marks | %<br>Weig<br>htage |
| 01              | Remembering-<br>(Knowledgebased Simple<br>recall questions, to know<br>specific facts,<br>terms, concepts,<br>principles, ortheories;<br>Identify, define, orrecite,<br>information)                                    | <ul><li>□ Reasoning</li><li>□ Analytical Skills</li><li>□ Critical thinking</li></ul> | 2   | 2                                       | 1  | 1   | 1  | 18             | 26%                |
| 02              | Understanding- (Comprehension -to befamiliar with meaning and to understand conceptually, interpret, compare, contrast, explain, paraphraseinformation)   |   | 1   | 1                                       | -  | 1   | 1  | 12             | 17%                |
| 03              | Application(Use abstractinformation in concretesituation, to apply knowledge to new situations; Use givencontent to interpret asituation, provide an example, or solve a problem)                                       |   | 1   | 2                                       | 1  | 2   | 1  | 21             | 30%                |
| 04              | High Order Thinking Skills(Analysis and Synthesis-Classify, compare, contrast, or differentiate between differentpieces of information;Organize and/or integrateunique pieces of information from a variety of sources) |   | 1   | 1                                       | -  | 1   | 1  | 12             | 17%                |
| 05              | Evaluation-(Appraise, judge, and/or justify the   |   | 1   | 1                                       | -  | 1   | -  | 7              | 10%                |

|                | value or worth of a decision oroutcome, or to predictoutcomes based on values) |  |         |         |         |         |         |      |                       |
|----------------|--|--|---------|---------|---------|---------|---------|------|-----------------------|
|                | TOTAL  |  | 1×6=6   | 2x7=14  | 3×2=6   | 4×6=24  | 5×4=20  | 70   | 100%                  |
| ESTIMATED TIME |  |  | 10 min. | 35 min. | 20 min. | 50 min. | 50 min. | min. | in.+15<br>For<br>sion |

Note: No Chapter wise weightage, care should be taken to cover all chapters.

# Scheme of questions

- $\hfill\Box$  There will be no choice in the question paper.
- □ Weightage to difficulty level of questions

| S. No. | Estimated difficulty | Percentage |
|--------|----------------------|------------|
| 1      | Easy                 | 20         |
| 2      | Average              | 60         |
| 3      | Difficult            | 20         |

# HOME SCIENCE (Code No. 064) CLASS XII (2018 – 19) COURSE STRUCTURE (THEORY)

One Paper (Theory) 70 Marks

Time: 3 Hours Periods: 220

| Unit |   | No. of periods | Marks |
|------|---|----------------|-------|
| I    | Human Development: Life Span Approach (Part II) | 40             | 30    |
| II   | Nutrition during life span                      | 40             | 30    |
| III  | III Money Management and Consumer Education     |                | 35    |
| IV   | Apparel: Designing, Selection and Care          | 40             | 33    |
| V    | Community Development and Extension (Part II)   | 20             | 5     |
| VI   | Career Options after Home Science Education     | 5              | 3     |
|      | Practical                                       | 35             | 30    |
|      | Total   | 220            | 100   |

### Unit I: Human Development: Life Span Approach (Part II)

40 Periods

- A. Adolescence (12 18 years)
  - (i) Growth & Development Domains and principles.
  - (ii) Meaning, characteristics and needs.
  - (iii) Influences on identity formation
    - (a) Biological and Physical changes-early and late matures. (Role of heredity and environment)
    - (b) by social, culture and media.
    - (c) Emotional changes.
    - (d) Cognitive changes.
  - (iv) Specific issues and concerns
    - (a) Eating disorders-Causes, consequences and management Anorexia Nervosa, Bulimia.
    - (b) Depression
    - (c) Substance Abuse
    - (d) Related to sex
    - (e) Handling stress and peer pressure

#### B. Adulthood:

- (i) Young & middle adulthood: Understanding and management of new responsibilities, carrier marriage and family.
- (ii) Late Adulthood/Old age:

- (a) Health and Wellness: physical, social, emotional, financial, recreational needs
- (b) Care for elderly (at home and outside old age home)
- (c) Anger management

### Unit II: Nutrition for Self, Family and Community

40 Periods

- (a) Meal Planning: Meaning and importance, principles and factors affecting meal planning; Nutritional needs, food preferences and modifications of diets in different age groups: infants, children, adolescence, adults, elderly and in special conditions: pregnancy and lactation (including traditional foods given in these conditions)
  - (i) Use of basic food groups (ICMR) and serving size in meal planning
  - (ii) Factors influencing selection of food: culture, family food practices, media, peer group, availability of foods, purchasing power, individual preference & health.
- (b) Food safety and quality:
  - (i) Safe food handling (personal, storage, kitchen, cooking and serving).
  - (ii) Safety guards against food adulteration, definition and meaning of food adulteration as given by FSSAI (Food Safety and Standard Authority of India).
  - (iii) Common adulterants present in cereals, pulses, milk and milk products, fats and oils, sugar, jaggery, honey, spices and condiments.
  - (iv) Effects of some of the adulterants present in the foods: kesari dal, metanil yellow, argemone seeds.
  - (v) Food standards (FPO, Agmark, ISI).
- (c) Therapeutic modification of normal diet with respect to consistency, frequency, foodstuffs, nutrients and methods of cooking.
- (d) Modification of diet according to common ailments: diarrhoea, fever, jaundice, hypertension, diabetes and constipation. Physiological changes, clinical symptoms, requirements and dietary requirements in each condition.

#### **Unit III: Money Management and Consumer Education**

- (a) Family Income:
  - (i) Various sources of family income:
    - money income
    - real income (direct and indirect)
    - psychic income
  - (ii) Supplementing family income-need and ways; need and procedure for maintaining household accounts (daily, weekly and monthly).
- (b) Savings and Investment:
  - (i) Meaning and importance of savings.
  - (ii) Basis for selection of investment methods: risk, security, profit, tax saving.
  - (iii) Ways/methods of investment -
    - Bank schemes (saving, fixed, recurring);

- Post Office schemes (savings, recurring deposit, monthly income scheme, National saving certificate, Senior citizen scheme);
- Insurance schemes (whole life, mediclaim);
- Dublic Provident Fund (PPF), Provident Fund (PF).
- (iv) Consumer Protection and Education: Meaning, problems faced by consumer, Consumer Protection Amendment Act (2011); Consumer aids: labels, standardization marks, (ECO Mark, Hallmark, Wool mark, Silk mark), advertising, leaflets, and Consumer redressal forum, Internet.

#### Unit IV: Apparel: Designing, Selection and Care

40 Periods

- (i) Application of elements of art and principles of design in designing apparel.
- (ii) Selection and purchase of fabrics- purpose, cost, season, quality, durability, ease of maintenance and comfort.
- (iii) Selection of apparel- factors influencing selection of apparel- age, size, climate, occupation, figure, occasion, fashion, drape cost and workmanship.
- (iv) Care and maintenance of clothes:
  - (a) Cleansing agents: soaps and detergents (basic differences and their utility);
  - (b) Stain removal General principles of stain removal, stain removal of tea, coffee, lipstick, ball pen, Grease, Curry and Blood.
  - (c) Storage of clothes.

#### **Unit V: Community Development and Extension (Part II)**

20 Periods

- (i) Water safety: Safe drinking water-importance of potable water for good health, and its qualities, simple methods of making water safe for drinking; boiling, filtering (traditional and modern technology), use of alum, chlorine.
- (ii) Salient features of income generating schemes
  - DWCRA (Development of Women and Children in Rural Area)
  - MGNREGA (Mahatma Gandhi National Rural Employment Guarantee Act, 2005)

#### **Unit VI: Career Options after Home Science Education**

05 Periods

Career options of self and wage employment of various fields of Home Science.

# HOME SCIENCE CLASS XII (2018 – 19)

PRACTICAL Maximum Marks: 30

Periods: 35

#### 1) Human Development: Life Span Approach (Part II)

Activities

- Identify the problems of adjustment of adolescents with the help of a tool (group activity) and make a report.
- Spend a day with an aged person and observe the needs and problems. Write a report.

|     | List and   | d discuss at least 4 areas of agreement and disagr  | eemei   | nt of self with:-                            |  |  |  |
|-----|--|---|---------|--|--|--|--|
|     | a)   | Mother  | b)      | Father                                       |  |  |  |
|     | c)   | Siblings  | d)      | Friends                                      |  |  |  |
|     | e)   | Teacher   |         |  |  |  |  |
| Nu  | trition fo   | or Self, Family and Community   |         |  |  |  |  |
| Act | ivities  |   |         |  |  |  |  |
|     | Record   | one day diet of an individual and evaluate it again   | inst p  | rinciples of balanced diet.                  |  |  |  |
|     |  | meal and modify for any one physiological condi<br>ension, Diabetes, Pregnancy, Lactations, Old age |         | -  |  |  |  |
|     | •  | y food adulteration: using visual and chemical me<br>ves, Coriander, Black Pepper Seeds, Desi-ghee. | ethods  | s; Turmeric, Chana Dal, Bura Sugar, Milk,    |  |  |  |
|     | Prepare  | ORS Solution.   |         |  |  |  |  |
| Mo  | ney Ma   | nagement and Consumer Education   |         |  |  |  |  |
|     | Collect  | and fill savings account opening form in Post Of  | ffice a | and Bank.                                    |  |  |  |
|     | Fill up of A/c j   | the following forms and paste in file: Withdrawa payee).  | l slip, | Deposit slips, Draft slip and cheque (bearer |  |  |  |
|     | Collect  | labels of any three products and compare them v   | vith n  | nandatory requirements.                      |  |  |  |
|     | Prepare  | one label each of any three items bearing ISI, Fl   | PO, A   | gmark.                                       |  |  |  |
| Ap  | parel: D   | esigning, Selection and Care  |         |  |  |  |  |
|     | Illustrat  | te principles of design or elements of art on a pap   | er or   | cloth and evaluate them.                     |  |  |  |
|     | Remov  | al of different types of stains: tea, coffee, curry, g  | grease  | , blood, lipstick, ball pen.                 |  |  |  |
|     | Examin   | ne and evaluate readymade garments for their wo   | rkmar   | nship. [at-least two]                        |  |  |  |
|     | Make s   | ample of Hemming, Backstitch, Interlocking, and   | d Pres  | s buttons, hooks and eye.                    |  |  |  |
| Co  | nmunit   | y Development and Extension   |         |  |  |  |  |
|     | Visit any two places (home/restaurant/school/business centre, etc.) and observe its measure for safe |   |         |  |  |  |  |

## 5)

2)

3)

4)

drinking water and general conditions of hygiene around it.

### Scheme for practical examination (Class XII)- 30 marks

- 1. Unit I-Human Development: Life Span Approach (Part II)- Project Report-5 marks
- 2. Unit II- Nutrition for Self, Family and Community
  - a) Plan a meal and modify and prepare a dish for any one physiological condition Fever, Diarrhoea, Constipation, Jaundice, Hypertension, Diabetes, Pregnancy, Lactations, Old age and Infants- 5 marks
  - b) Identify food adulteration: using visual and chemical methods; Turmeric, Chana Dal, Bura Sugar, Milk, Tea leaves, Coriander, Black Pepper Seeds, Desi-ghee- 2 marks

### 3. Unit III-Money Management and Consumer Education

a) Prepare one label each of any three items bearing ISI, FPO, Agmark. - 2 marks

b) Filling up of paying slip either to deposit cash or cheque- 2 marks

#### 4. Unit IV- Apparel: Designing, Selection and Care

a) Removal of different types of stains- Tea, coffee, grease, blood, lipstick, ballpen (Any two)

OR

Readymade garment- Quality check - 2marks

- b) Make sample of hemming/backstitch/interlocking/fastener- 2marks
- 5. Unit V-Community Development and Extension- Survey Report- 4 marks
- 6. File- 4 marks
- 7. Viva-2marks

#### **Reference books for teachers:**

- 1. Human Ecology and Family Sciences Part I, Class- XII, NCERT Publication
- 2. Human Ecology and Family Sciences Part II, Class- XII, NCERT Publication

### **QUESTION PAPER DESIGN 2018-19**

HOME SCIENCE CODE NO. 064 CLASS-XII

TIME: 3 Hours Max. Marks: 70

| S.<br>No. | Typology of Questions   | Learning<br>outcomes and<br>Testing Skills  | Very<br>Short<br>Answer<br>(VSA)<br>(1<br>Mark) | Short<br>Answer<br>(SA)<br>(2<br>Marks) | Case<br>study<br>and<br>picture<br>based<br>(3<br>Marks) | Long<br>Answer<br>–I (LA-<br>I)<br>(4<br>Marks) | Long<br>Answer –<br>II (LA-II)<br>(5 Marks) | Total<br>Marks | %<br>Weightage |
|-----------|---|---|---|---|--|---|---|----------------|----------------|
| 01        | Remembering (Knowledge<br>based Simple recall<br>questions, to know specific<br>facts, terms, concepts,<br>principles, or theories;<br>Identify, define, or recite,<br>information)   | <ul> <li>Reasoning</li> <li>Analytical Skills</li> <li>Critical thinking</li> </ul> | 2   | 2                                       | 1  | 1   | 1   | 18             | 26%            |
| 02        | Understanding-<br>(Comprehension – to be<br>familiar with meaning and<br>to understand conceptually,<br>interpret, compare, contrast,<br>explain, paraphrase<br>information)  |   | 1   | 1                                       | -  | 1   | 1   | 12             | 17%            |
| 03        | Application -(Use abstract information in concrete situation, to apply knowledge to new situations; Use given content to interpret a situation, provide an example, or solve a problem)                                       |   | 1   | 2                                       | 1  | 2   | 1   | 21             | 30%            |
| 04        | High Order Thinking Skills - (Analysis and Synthesis-Classify, compare, contrast, or differentiate between different pieces of information; Organize and/or integrate unique pieces of information from a variety of sources) |   | 1   | 1                                       | -  | 1   | 1   | 12             | 17%            |
| 05        | <b>Evaluation-</b> (Appraise, judge, and/or justify the   |   | 1   | 1                                       | 1  | 1   | -   | 7              | 10%            |

| value or worth of a decision<br>or outcome, or to predict<br>outcomes) |  |         |         |         |         |    |                            |
|--|--|---------|---------|---------|---------|----|----------------------------|
| TOTAL  |  | 2x7=14  | 3×2=6   | 4×6=24  | 5×4=20  | 70 | 100%                       |
| ESTIMATED TIME   |  | 35 min. | 20 min. | 50 min. | 50 min. |    | nin.+15 min.<br>r revision |

**Note:** No Chapter wise weightage, care should be taken to cover all chapters.

# **Scheme of questions**

- There will be no choice in the question paper.
- □ Weightage to difficulty level of questions

| S. No. | Estimated difficulty | Percentage |
|--------|----------------------|------------|
| 1      | Easy                 | 20         |
| 2      | Average              | 60         |
| 3      | Difficult            | 20         |