# Scheme of Examination and Courses of Study B.Sc. Home Science, Part –I, 2018 Duration of Theory Examinations: 3 hrs

Paper	NOMENCLATURE OF PAPERS	MAX	MARKS	HOURS/	WEEK
No.	NOWENCERTORE OF THE ERS	Th.	Pr.	Th.	Pr.
1.	Gen. Hindi				
		100		4	
2.	Gen.English	100		4	
	Main Papers				
1.	Applied Science	50		2	
2.	Human Physiology	100		4	
3.	<b>Extention and Communication I</b>	100	50	4	2
4.	Food and Nutrition (Fundamental of Food & Nutrition)	100	50	4	2
5.	Family Resource Management Introduction to Resource management	100	50	4	2
6.	Human Development I Life Span Development	100	50	4	2
7.	Textile and Clothing I Introduction to Textiles and Clothing	100	50	4	2
	Total	650	250	26	10
	Grand Total		900	36	5

Note:- Practical work load is to be counted - 1:1

# 1. सामान्य हिन्दी

समय : 3 घण्टे उत्तीर्णांक : 36 पूर्णांक : 100

निर्देष- इस प्रष्न पत्र के प्राप्तांक श्रेणी निर्धारण में सम्मिलित नही किये जायेंगे।

अंक योजना– (अ भाग)

गद्य एवं पद्य संकलन की विविध विधाएं कमषः (25 + 25= 50 अंक)
 1. एक प्रष्न व्याखाओं से संबंधित कमषः (10 + 10= 20 अंक)
 2. दो परिचायात्मक प्रष्न पाठ्य पुस्तकों से (15 + 15= 30 अंक)

### (ब भाग)

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1.	शब्द शुद्धि	— 5 अंक
2.	वाक्य शुद्धि	— 5 अंक
3.	पारिभाषिक शब्दावली (अंग्रेजी शब्दो के हिन्दी समानार्थक शब्द)	<ul><li>5 अंक</li></ul>
4.	संक्षेपण	<b>–</b> 5 अंक
5.	पल्लवन	<b>–</b> 5 अंक
6.	वाक्यांष के लिए सार्थक शब्द	<b>–</b> 5 अंक
7.	प्रारुप	<b>–</b> 5 अंक
8.	शब्द युग्म : अर्थ–भेद	<b>–</b> 5 अंक
9.	निबन्ध	— 10 अंक

### गद्य संकलन

- 1. ग्रामोत्थान नानाजी देषमुख, दीनदयाल शोध संस्थान चित्रकूट
- 2. पर्यावरण और सनातन दृष्टि छगन मेहता, संक्रान्ति और सनातनता, संकलन से वागदेवी प्रकाषन बीकानेर
- 3. ठिटुरता हुआ गणतंत्र (व्यंग) हरिशंकर परसाई, तिरछी रेखाए, वाणी प्रकाषन दिल्ली
- 4. लछमा (रेखाचित्र) महादेवी वर्मा अतीत के चलचित्र वाणी प्रकाषन नई दिल्ली
- 5. अग्नि की उडान (परिच्छेद 16) ए.पी.जे. अब्दुल कलाम प्रभात प्रकाशन नई दिल्ली
- 6. भेडाघाट : मार्बल रॉक्सौर धुआधार ७– अमृत लाल बेगड अमृत्यस नर्मदा ग्रंथ, मध्यप्रदेष अकादमी , भोपाल, मध्यप्रदेष
- 7. आावाज का निलाम (एकांकी) धर्मवीर भारती गद्य प्रभा— डॉ. नवल किषोर पंचषील प्रकाषन जयपुर
- 8. सवाचेती विजयदान देथा, आउटलुक पत्रिका 03.10.2005
- 9. हिन्दी भाषा और उसकी विरासत डॉ. विद्यानिवास मिश्र, हिन्दी साहित्य का पुनरावलोकन विद्या निवास मिश्र, प्रभा प्रकाषन दिल्ली
- 10. सुसंग-कुसंग-सीताराम महर्षि, कृष्ट कुटीर, रतनगढ, चुरु (राज.)
- 11. ये है प्रोफेसर शषांक डॉ. विष्णुकान्त शास्त्री, 'समय के पाथेन बनने दो' संग्रह , लोक भारती इलाहाबाद (उ.प्र.)
- 12. दुलसी के काव्य में 'कुराज' और 'सुराज' प्रो. सुर्य प्रसाद दीक्षित साहित्यीक डी 54, निराला , नगर लखनउ (उ.प्र.)

### पद्य - संकलन

- गंगावतरण, भारतेन्द्रु हरिष्चेन्द्र 'भारतेन्दु समग्र' संपादक, हेमन्त शर्मा हिन्दी प्रकाषन संस्थान, वाराणसी (उ.प्र.)
- 2ण गोवर्धन धारण, हरिऔध 'प्रिय प्रवास' महाकाव्य हिन्दी साहित्य कुटीर वाराणसी, (उ.प्र.)
- 3º भारत वन्दना, मैथिलीषरण गुप्त 'मंगल—घट' काव्य ग्रंथ साहित्य (नीलाम्बर परिधान) सदन चिरगांव, झांसी (उ.प्र.)
- 4ण समर शेष है रामधारी सिंह दिनकर 'परषुराम की प्रतिक्षा' ग्रंथ से राजपाल एण्ड संस, दिल्ली
- 5ण वीरों का कैसा हो बसन्त, सुभद्रा कुमारी चौहान 'सुभद्रा कुमारी चौहान' सम्पादक : सुधा चौहान साहित्य अकादमी नई दिल्ली
- 6º चल पडे जिधर दो डगर७ सोहन लाल त्रिवेदी 'राष्ट्रीय गीत संग्रह' साहित्य अकादमी नई दिल्ली
- 7ण श्रम दयाकृष्ण विजय, 'श्रम धरा' अर्चना प्रकाषन, अजमेर।
- 8ण भारती की साधना, इन्दुषेखर तत्पुरुष 'हमारा दृष्टिकोण स्मारिका' 70 / 75 मानसरोवर जयपुर (राज.)

### 1. GENERAL ENGLISH

Duration: 3 Min Pass Marks: 36 MM 100

**Objectives:** This is essentially a language based Course. It aims at making students read English prose with a view to enlarging their comprehension of the language and encouraging them to develop reading habits. It also aims at giving those basic skills in grammar widening their vocabulary and teaching them to write simple and correct English.

### 1- Comprehension and Vocabulary

**a.** Question based on content from the prescribed text.

10

- **b.** Question based on a passage from the prescribed text to test the candidate's comprehension and vocabulary
- Question based on an unseen passage to test the candidate's comprehension and vocabulary

(There will be text of essays and short stories between 100 and 120 pages in length. The text book prescribed is "Languagethrough Literature" (OUP, NEWDELHI)

### 2- Composition

a.	Letter/application writing	10 marks
b.	Paragraph writing/precise writing	10 marks
c.	Report writing	10 marks

### 3- Translation

a.	Elements of a sentence	2 marks
b.	Transformation of sentence	6 marks
c.	Modals	2 marks
d.	Tense Usage	2marks
e.	Determiners	2 marks
f.	Common errors in English	2 marks
g.	Phrasal verbs	4 marks

### **Phrasal Verbs:**

Break : Break away, Break down, Break off, and Break up

**Bring** : Bring about, Bring in, Bring up, Bring down

**Come** : Come by, Come across, Come upon

**Carry** : Carry out, Carry on, Carry off, and Carry over.

**Call** : Call on, Call off, Call at.

Get : Gel Along, Get Away, Get By, Get Through, And Get Over.

**Give** : Give up, Give away, and Give in

**Hard** : Hard up, Hard of hearing, Hard nut to crack, Hard to please

**Look**: look after, look in to, look forward to, look upto

**Put** : put out, put off, put up, put up with

**Run**: run after, run down, run over, run out of

**Take**: take after, take up, and take to

### **Books recommended:**

1. A.J. Thomson and A.V. Martinet : A Practical English Grammar

(Oxford Paper Back)

2. S.Pit Corder : Intermediate English Practice Book

(Orient Longman)

3. Bhaskaran and Hordburgh : Strenghten Your English (OUP 1973)

4. T.l.h. Smith - Pearce : The English Errors of Indian Students

(OUP)

5. I.K. Sharma and V.D. Singh : A practical Course of English (Ramesh

Book Depot, Jaipur.

# 1. प्रारम्भिक हिन्दी

### (ELEMENTARY HINDI)

(सामान्य हिन्दी के स्थान पर केवल अहिन्दी भाषी क्षेत्रो से आए हुए विद्यार्थियों के लिये)

उत्तीर्णांक : 36 अवधि : उघण्टे पूर्णांक : 100

### अंको का विभाजन -

पुस्तकों पर आधारित
 व्याकरण से संबंधित
 अंक
 थांकरण से अधारित

3. रचना से संबंधित

क. लोकोक्तियाँ तथा मुहावरे आदि 10 अंक ख. पत्र लेखन अथवा निबन्ध 20 अंक

### पाठ्यकम :

1. अध्ययनार्थ पाठ्य पुस्तकें : क . निबन्ध संग्रह , ख. कहानी- सग्रंह

- 2. व्याकरण : शब्द—विचार, वाक्य विन्यास, वाक्य खण्ड, पद—क्रम का ज्ञान तथा इसमे होने वाली सामान्य त्रुटियो का ज्ञान।
- 3. रचना :

**क.**मुहावरों तथा लोकोक्तियो का प्रयोग, काव्य में समान दिखने वाले शब्दों का अर्थ — भेद तथा उनका वाक्य में प्रयोग

ख. पत्र लेखन, सरल निबन्ध।

### पाठ्य पुस्तकें :

### क. निबन्ध संग्रह

सुगम हिन्दी गद्य (सम्पादक) सूरज भान, राजपाल एण्ड सन्स, दिल्ली

**ख. गल्पदशिका** २, ७, ८, पाठों को छोडकर

### ग. व्याकरण एवं रचना-

सुबोध व्याकरण एवं रचना — सं. श्री व्यथित हद्वय संशोधन कर्ता — डॉ० अम्बाप्रसाद सुमन, श्री राम मेहरा एण्ड कम्पनी, आगरा।

# **MAIN PAPERS**

## Paper I APPLIEED SCIENCE

Max. Marks: 50

Hours/Week- 2 hrs/ batch

Duration of Examination: 3hrs

Note: each theory paper is dicvided to three parts, Part -A, Part-B and Part-C

**Part A:** (10 marks) is compulsory and contain 10 Questions (20 words each ) at least 3 Questions from each Unit.(each question is of 1 mark)

**Part B**:(10 marks) is compulsory and contain 5 question (50 words each) at least one question from each unit (each question is of 2 mark

Part C: (30 marks) contains at least 6 questions two from each unit (400 words)

Candidate is required to attempt 3 question one from each unit.

(each question is of 10 marks)

### **Contents:**

### <u>Unit- I</u>

# **Applied Chemistry**

- 1. Tarnishing of Metals, its Prevention and Removal, Metal Polishes, Organic Coating Paints, Pigments, Wood Polish, Shoe Polish.
- 2. Elementary idea of the Chemistry of the following
  - a) Polymers Clessification and their uses.
  - b) Ceramic

- 3. Fuels Classification, Calorific value, Solid fuels, Wood, Coal, Types and Selection, Liquid fuels- Petrolecum, Gaseous fuels Biogas, L.P.G. Oil Gas, Coalgas, Producer gas, Watergas, Non Conventional fuel, Solar energy.
- 4. Uses and Hazards of
  - a) Cosmetics.
  - b) Commen Insecticides, Pesticides and rodenticides.
  - c) Antiseptics and doinfeetants.

### **Unit-II**

### **Applied Physics**

- 1. Mechanics
  - a) Introduction to Properties of matter solids liquids & gases.
  - b) Simple machine -A brief introduction to nechamical advantage & efficiency.
- 2. Forces Centripetal & centrifugal forces -spin dryer in washing machine dish washer.
- 3. Heat Introduction to heat -sources & properties of heat, heat & temperatur heat transfer, humidity, relative hemidity & dew point.
- 4. Colour Sources of colour, responses of eye to colour, methods of producing colour.

## <u>Unit-III</u>

# **Applied Biology**

- 1. Applied Biology
  - a) Structure of flower with details of its parts.
  - b) Important physological processes (diffusion, osmosis, plasnolosis, absorption). Important of mineral nutrients in plants, role of micro organisms in soil fertility, nitrogem cycle, Carbon Cycle.
  - c) Propagation Speed propagation Viability, dormancy, seed treatment, planting, transplanting, plant protection from microbes and insects/pets for raising healthy seeding artificial methods cutting, layering grafting.
  - d) Mendels low of in herotance.
  - e) Morpholagy & life cycle of mosquitoes and housefly.

- f) Economic importance of honey bee, silk moth, lac culture.
- g) Characterstics of moulds, yeast and bacteria.

# RECOMMENDED READING BOTANY

- 1. Gepalaswamianger K.S. 1991, Complete gardening in India (Messers, Nagraj and Madras)
- 2. Handbook of Agriculture: ICAR, New Delhi 1987
- 3. Brickell C. 1993, Step by Step Gardening Technique (Royal Hor) Encyclopaedia of Practical Gardening, T.K. Bose and M.G. Som,: Vegetables Crops in India Naya Prakash, Calcutta 1986)
- 4. H.T. Harman and D. Kester: Plant Propagation, Principles and Practices (Printice Hall of India Pvt. Ltd. New Delhi 1986)
- 5. B. Choudhary: Vegetables (National Book of India, New Delhi 1986)
- 6. S. Kumar: Home gardening
- 7. J.L. Shreemali : Economics Botany (Kitab Mahal, Allahabad 1982)
- 8. Sudhir Pradhan: Economic Botany (Har Aanand Publications, New Delhi, 1995)
- 9. Robert, W.Sehery: Plants for Man (Printice Hall Incorporation 1972)
- 10. Sham Singh Fruit Cultivation in India.
- 11. Gangulee H.C., Dass K.S., Dass K.S and Dutta C.: College Botany Vol. I (New Central Book Agency Calcutta (1991))
- 12. Dutta A.C.: Botany For Degree Students (Oxford University Press, New Delhi, 1970)
- 13. Pelezar M.J., Chan and Krieg: Microbiology (Megraw Hill Book company. New York 1986)
- 14. Purohit S.S.: Microbiology, Fundamentals and Applications (Agro Botanica, Bikaner)

### **ZOOLOGY**

- 1. Chatterjee K.D.: Parasitology (Published by the author) 1981
- 2. Chandler and Read: Introduction to parasitology(John Wilsy and sons) 1960
- 3. Metcalf and Flint: Destructive and useful insects( Tata McGraw hill 1983)
- 4. Nayar Anathakrishnan and david : general and applied Entomolgy (Tata McGraw Hill 1986)
- 5. Roy & Brown: Entomolgy Medical and Veterinary including insecticides (Banglore printing anf publishing company) 1970
- 6.Kotpal: Morden Text book of zoology(Rastogi publications, 2000)
- 7. Jordan and Verma: Inverobrate Zoology(S. Chandanad Co. Ltd. 1998)
- 8. Jordan and Nigam: Animal Biology (Hindustani Book Depot, Lucknow 1986)
- 9. Dhoti A.K.: Silkworm biology and rearing (NECRT 1990)
- 10. Mehrota V.S. Bee Keeping (Instruction cum Practical Manual), NECRT 1997
- 11. Winchester A.M. Genetics ( A Survey of the principles of heredity) Oxford and IBH publishing company
- 12. Singh B.D.: Introduction to genetics (Kalyani Publishers 1997)
- 13. Atwal A.S.: Agricultural pests of India and South-East Asia, 1986
- 14. Outo and towel: Morden Biology (Holt, Rinchart and Winston Inc. New York. 1970)
- 15. Pelezar M.J. Chan and Krieg :Microbiology (Mcgraw hill Book Co. New York 1986) 5<sup>th</sup> Edition
- 16. Ravindra Nath Principles of Cytogenetics, Evolution, Plant Breeding, Genetics Engineering, Biotechnology (Kalyani Publishers, 1997)
- 17. Verma V. (1986) A textbook of Practical Botany. Vol I-IV Rastogi Publications
- 18. Anderson D.B. and Mayer B.S. (1970) Plant Physiology , Van Nostrand Renihold Co. Easewest Press

- 19. Kochhar, P.L. (1994) A Textbook of Zoology Plant Physiology, Atma Ram & Sons, Delhi
- 20. Dhami, P.S. (1987): A Textbook of Zoology, S.Nagin & Co. Jallundar
- 21. K.S. Gopalaswami lynger(1991) Complete Gardening in India , Banglore , Gopalswami, Parthasarthy
- 22. Kocher, S.L. (1981) Economics Botany in tropics, MacMillan India
- 23. Hartmann, H. And kester, D.E. (1993) Plant Propagation Principle and Practice, N. Delhi, Prentice hall of India (Pvt. )Ltd.

## Paper - 2 HUMAN PHYSIOLOGY

Max Marks: 100

**Hours/Week** – 4 hrs/week

**Duration Examination** – 3 hrs

Note: each theory paper is divided to three parts, Part –A, Part-B and Part-C

**Part A:** (20 marks) is compulsory and contain 10 Questions (20 words each ) at least 3 Questions from each Unit.(each question is of 2 mark)

**Part B**: (20 marks) is compulsory and contain 5 question (50 words each) at least one question from each unit (each question is of 4 mark)

Part C: (60 marks) contains at least 6 questions two from each unit(400 words)

Candidate is required to attempt 3 question one from each unit.

(each question is of 20 marks)

### **Objectives:**

This course is enable the students to-

1. Understand the physiology of human body

Contents:

#### UNIT I

- 1. Elementary anatomy of various systems
- 2. Cell:Structure and function of cell, cell organelles .
- 3. Tissues: Classification, Structure and function
- 4. Gastrointestinal System
- a) Structure and functions of various organs of the GI Tract
- b) Digestion and absorption of food(protein, fats & carbohydrates) and role of enzymes and hormones

### UNIT II

- 5. Respiratory System
  - a) Structure of lungs
  - b) Mechanism of reparation and its regulation
  - c) O<sub>2</sub> and CO<sub>2</sub> transport in blood
  - d) Vital Capacity and other volumes
  - e) Muscular exercises
- 6. Excretory System
  - a) Structure and function of kidney, bladder, formation of urine, role of Kidney in homeostasis
  - b) Structure and functions of skins
  - c) Regulation of Temperature of the body
- 7. Cardiovascular System

- a) Blood and its compositions
- b) Blood Groups
- c) Coagulation of Blood
- d) Structure and functions of heart
- e) Heart rate, cardiac output, blood pressure and its regulation

### Circulation of Blood

- 8. Skeletal System
  - a) Types of bones, compositions and function of skeletal system
  - b) Joints:types of joints

### UNIT III

- 9. Endocrine Glands Functions, impacts of hypo and hyper functioning
- 10. Reproductive System
  - a) Structure and function of sex glands and organs, including hormones
  - b) Menstrual Cycle
  - c) Physiology of Pregnancy, Parturition, Lactation and Menopause
- 11. Nervous System
  - a) Elementary anatomy of nervous system
  - b) Functions of different parts of the brain in brief
  - c) Autonomous, sympathetic and parasympathetic nervous system
  - d) Special Senses

c)

- 12. Human Genetics
  - a) Human Chromosomes, the inheritance and variation in man
  - b) Abnormalities of autosomal chromosomes and chromosome structure

The generic basis of human disease, sickle cell anaemia, haemophilia

c) Genetic Counselling.

### **References:**

- 1. Guyton, A.C., Hall, J.E. (1996): Textbooks of Medical Physiology, 9<sup>th</sup> Ed. Prism Books(Pvt.) Ltd., Bangalore
- 2. Winwood (1998): Sear's Anatomy and Physiology for Nurses, London, Edward, Arnold
- 3. Wilson (1989): Anatomy and Physiology in health and illness, Edinburgh, Churchill Living Stone.
- 4. Chatterjee, C.C.(1988): A Textbook of Medical Physiology, London, W.B. Sounder's Co.

# Paper 3 EXTENSTION AND COMMUNICATION – I Introduction to Extension Education

Max Marks: 100

**Hours/Week** – 4 hrs /week

**Duration Examination** – 3 hrs

Note: each theory paper is divided to three parts, Part -A, Part-B and Part-C

**Part A:** (20 marks) is compulsory and contain 10 Questions (20 words each ) at least 3 Questions from each Unit.(each question is of 2 mark)

**Part B**: (20 marks) is compulsory and contain 5 question (50 words each) at least one question from each unit (each question is of 4 mark)

**Part C**: (60 marks) contains at least 6 questions two from each unit(400 words) Candidate is required to attempt 3 question one from each unit. (each question is of 20 marks) Contents:

### UNIT I

- 1. Education
  - a. Meaning: Definition and Need of Extension Education
  - b. Ways of importing Education:
    - i. Fomral
    - ii. Non Formal
    - iii. Imformal
  - c. Meaning, Importnace and Charactristics of
    - i. Audlt Education
    - ii. Continuining Education
    - iii. Distance Education
- 2. Extension Education
  - Meaning and Definition of Extension Education and Home Science Extension.
     Scope of Home Science Exention Education and its relationship with others social science
  - b. Principles of Extension Education

#### **UNIT II**

- 3. Qualities of an Extension Worker
- 4. Extensions teaching approaches and methods
  - a. Classification of Extensions teaching approaches
    - i. Individual Approach
    - ii. Group Approach
    - iii. Mass Approach

Characteristics, selection and use, advantages and limitations of each approach Classification of Extension Teaching aids, Characteristics, selection and use, advantages and limitations of each method/aid

### **UNIT III**

- 5. Communication
  - a. Meaning, Definition, Importance and scope nature of communication
  - b. Functions of Communication
- 6. Communication Process
  - a. Elements of Communication process and their characteristics
  - b. Model of Communication Process
  - c. Barries of communication process
  - d. Dale's cone of experience

- 7. Motivation: Meaning, Definition, Importance and role of motivation in extension education
- 8. Learning: Meaning, Principles, Factors affecting learning process. Importance of Extension Education
- 9. Teaching Steps of Extension Education.

### **PRACTICAL**

Duration of Examination: 4 hrs Max Marks: 50 Hours/Week: 2hrs Min. Pass Marks: 18

- 1. Planning, Preparation & presentation of communication aids/media particularly for women and children
  - a. Poster
  - b. Chart/Flip Chart
  - c. Flash cards/ Flip Book
  - d. Flannel Graph
  - e. Folder/Pamphlets/Leaflet
- 2. Planning & arranging any one
  - a. Bulletine Board Display
  - b. Window Display
  - c. Exhibition
- 3. Planning Preparation & presentation of the following in Home Scicence
  - a. Demonstration Result/Method
  - b. Role Play/Dramatization
  - c. Puppet Show
- 4. Assess two of the following
  - a. T.V. Programme educational/recreational
  - b. Radio Programme education/recreational
  - c. New stories/items
  - d. Social & commercial advertisement
  - e. Magzine Articles
- 5. Developing skills in using (handling and care) of various : instruments/ equpements used for communication
  - a. Overhead Projector
  - b. Slide Projector
  - c. Public Speaking Equipment
  - d. Television
  - e. VCR/VCD
  - f. Computer & Other

### Distribution of Marks:

1.	File & Record		20 Marks
2.	Any one graphics Communication aid		12 Marks
3.	Bulletin Board/ window display presentation		6 Marks
4.	Role Play/Puppet Show/Exhibition(Group Activity)	)	7 Marks
5.	Viva Voce		5 Marks
		Total	50 Marks

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  - a. Teaching Steps of extension education
  - b. General Guide to learning and teaching and their implication in extension education. Publications, Baroda, 1990
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- 11. Prereira M.J., Development Communication Handbook Ideas Skills, Illustrations, Satprabhaboshon Sanchar Kendra, Indore.1994
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- 13. Devdas, R.P. Methods of Teaching Home Sciences, National Council of Educational Research and Training, New Delhi 1978
- 14. Singh, R. Textbook of Extension Education, Sahitya Kala Prakashan Ludhiana, 1987

### **Journals:**

- 1. Channing Villages, PPS Gussain for Consortium on Rural Technology, D-320, Laxmi Nagar, New Delhi-110092
- 2. Kurukshetra, Director, Publications Divisions, Ministry of I&B, Government of India, Patila House, New Delhi-110001
- 3. Yojana, Director, Publications Divisions, Patiala House, New Delhi 110003
- 4. Indian Journal of Extension Education, The Indian Society of Extensions Education, Division of Agriculture Extension, IARI, New Delhi 110012

# Paper 4 FOODS AND NUTRITION –I Fundamental of Foods and Nutrition

Max Marks: 100

**Hours/Week** – 4 hrs /week

**Duration Examination** – 3 hrs

Note: each theory paper is divided to three parts, Part –A, Part-B and Part-C

**Part A:** (20 marks) is compulsory and contain 10 Questions (20 words each) at least 3 Questions from each Unit.(each question is of 2 mark)

**Part B:** (20 marks) is compulsory and contain 5 question (50 words each) at least one question from each unit (each question is of 4 mark)

Part C: (60 marks) contains at least 6 questions two from each unit (400 words)

Candidate is required to attempt 3 question one from each unit.

(Each question is of 20 marks)

### **Contents:**

### **UNIT I**

- 1. a. Concept and definition of the terms nutrition food, nutrients, malnutrition and health. Relationship between Food, Nutrition, health and disease. Brief History of nutritional science. Scope of Foods and Nutritions
  - b. Functions of Food Physiological, psychological and socio-cultural functions
  - c. Factors affecting selction of food & food related behaviour of families- availability agriculture production, food cost and economy, environment, sociocultural, psychological and religious factors, role of industrialization, urbanization, work pattern mass media, et. Acceptablity of foods sensory qualities, likes & dislikes, knowledge, attitude & practices regarding food-fads, fallacies and beliefs
- 2. Concept of minimum nutrient requirements and Recommended dietary Allowances, General methods of assessment of nutrient needs for- energy, protine, vitamis and minerals
- 3. Nutrients: Macro and Micronutrients. Classification, chemistry and properties, functions, sources, digestion, absorption and utilization, Recommended Dietary Allowances, Deficiency and Excess of
  - a. (i) Water (ii) Carbohydrate (iii) fats(including FFA) (iv)Fiber (v) Protien (including quality definition methods of improving protein quality of diets)
  - b. Minerals & Trace elements calcium, phosphorous, magnesium, manganese, iron, copper, zinc, selenium, fluorine, iodine, sodium and potassium

### **UNIT II**

- c. Vitamins
  - i. A.D. E. & K.
  - ii. Water soluble vitamins Thiamine, riboflavin, nia cin, pyridoxine, pantothenic acid, folic acid, cynocobalamin, ascorbic acid
- 4. Energy Metabolism
  - a. Units of measuring energy, fuel value of foods, methods of measuring energy value of foods, calculating of energy value of diets
  - b. Concepts of energy balance components of energy expenditure and factors affecting the same. Measurement and determination of Basal Metabolic Rate and EnergyExpenditure, Energy requirement and recommended allowances
- 5. (a.) Foods(in brief):structure, food composition, nutritional contribution, selection, storage and care of the following.
  - a. Cereals and millets
  - b. Pulses and legumes
  - c. Nuts and oilseeds
  - d. Milk and milk products
  - e. Vegetables & Fruits
  - f. Eggs

- g. Meat, fish and poultry
- h. Sugar and sugar products
- i. Fats and oils
- (b) Classification and nutritional contribution, uses, storage and care of beverages:

Tea, coffee, cocoa, chocolate and other beverages

(c) Condiments and spices: Use in Indian cookery

#### UNIT III

- 6. Concepts of Basic Food Groups and Food Exchanges list
- 7. Food Preparation
  - a. Basic terminology used in food preparation
  - b. Reasons of cooking food
  - c. Principles of food preparation
  - d. Methods of cooking classification, procedure, merits & limitations
  - e. Effects of cooking and home processing on food constituents and colour, texture
  - f. Improving nutritional quality of foods improving bio availability of nutrients and enhancement of quality of diets by
    - i. Germination
    - ii. Fermentation
    - iii. Supplementation
    - iv. Substitution
    - v. Combination
    - vi. Fortification and enrichment
- 8. Food adulteration:definition, common adulterants and efforts to control :Food laws and standards

### **PRACTICAL**

Hours/Week: 2 hr Max. Marks: 50
Duration of Examination: 3 hrs Min. Marks: 18

### **Objectives:**

- 1. To acquire skills in food preparation techniques
- 2. To use appropriate methods of cooking for preparation of specific food products
- 3. Learn proper handling, preparation and service foods
- 4. Be familiar with evaluation of food products for their quality characteristics

### **Contents:**

- 1. Principles and methods of working in food laboratory or Kitchen
- 2. Use and care of kitchen equipment
- 3. Market survey for availability and cost of foods.
- 4. Determination of percentage of edible portions of food.
- 5. Weights and measures of dry ingredients, solid fat liquids, etc. Standard weights and measures, weight and their equivalent measures.
- 6. Controlling techniques

- a. Weights and Measure standard and household measures for raw and cooked foods
- b. Recipe standardization technique
- c. Evaluation of food as rich, moderate and poor sources of specific nutrients
- 7. Cooking methods various preparations using different cooking methods.
- 8. Preparation, serving and evaluating food items:
- a. Beverages tea, coffee, cocoa, fruits juice, punches, milk shakes etc.
- b. Cereals Breakfast careals upma, pohae, variation in paranthas, purees, chapatti, rice, pulao, biriyani, sandwiches, pastas, pancakes, porridges, biscuits, cookies, cakes etc.
- c. Pulses using whole, dehusked and sprouted pulses-chana, rajmah, sambharwada, dhokla, kadi etc.
- d. Vegetables dry vegetables, curries, koftas, baked vegetables dishes, cutlets etc.
- e. Salads: Decorative and nutritious
- f. Soups and Stews: Clear and nutritious soups
- g. Milk,Paneer,Curd,Cheese and Khoa preparations—custards, kheers, ice-creams, Indian Sweets—barfis, gulab jamun, chenna, sandesh etc.
- h. Eggs hard and soft boiled, poached, scrambled Omlette and eggnog etc.
- i. Meat fish and poultry(Optional)
- j. Baked products: cakes and biscuits
- k. Snacks Savoury: mathri, kachories, pakoras etc.
  - Sweets: Ladoos, Gunjias, Malpuas
- k. Combination recipes
- 9. **Food Adulteration**: Qualitative testing of some common foods for adulteration-Demonstration.

### **Distribution of marks**

(a) Preparation of two dishes	
1. Quality characteristics (12+12)	24
2. Method of works & cleanliness	6
3. Serving	6
(b) Files and Record	10
(c)Test for adulterants (2) in given food.	4
Total	50

# Paper 5 FAMILY RESOURCE AND MANAGEMENT – I Introduction to Resources Management

Max Marks: 100

**Hours/Week** – 4 hrs /week

**Duration Examination** – 3 hrs

Note: each theory paper is divided to three parts, Part –A, Part-B and Part-C

**Part A:** (20 marks) is compulsory and contain 10 Questions (20 words each) at least 3 Questions from each Unit. (Each question is of 2 mark)

**Part B:** (20 marks) is compulsory and contain 5 question (50 words each) at least one question from each unit (each question is of 4 mark)

Part C: (60 marks) contains at least 6 questions two from each unit (400 words)

Candidate is required to attempt 3 question one from each unit.

(Each question is of 20 marks)

### **UNIT I**

- 1. Introduction to Management
  - a. Management and Home management definitions & objectives
  - b. Principles and function of Management(in brief)
  - c. Obstacles to the improvement of management
  - d. Ethics in management
  - 2. Management as a system- Definition, elements, characteristics and its application in family management
  - 3. Motivating factors of management
- a. Values definition, characteristics, classification, process of valuing

bGoals – meaning, chatacteristics, types, general family goals.

c. Standards – definition, classification, criteria for choosing standards.

### **Unit-II**

- 4. Management process –
- a. Planning definition, importance, types and techniques of planning.
- b.Controlling-definition, phases of controlling, direction and guidance.
- c. Evaluvation-definition, importance, procedure of evluvation.
- 5. Resources in the family definition, types, characteristics, factors affecting the use of resources
- 6.Decision making-definition, types, characertistics, process of decision making, levels of resoving conflict.

c.

### **UNIT III**

- 7.Management of time- tools in time management- time cost,time norms,peak load,work curve,rest period.process of mangig time,time demand during different stages of the family life cycle.
- 8. Management of Energy- classification of house hold tasks, process of energy management Fatigue- types , causes , measures to avoid fatigue
- 9. Work simplification –definition, objective, factors determining the efficiency of worker. Tehniques of work simplification . Mundel classes of change.

### **References:**

- 1. Gross and Crandall E. (1963) –Management for Morden Fanrillies, Applenton Cenary Craft, New York
- 2. Nickel and Dorsey, J.M. (1970) Management in family living wiliy Easterm Ltd. New Delhi
- 3. Mullick, Premlak (2000) Textbook of Home Science Kolyani Pubhishers, New Delhi
- 4. Stidal R.E. & Bratton, E.C. Work in Home

- 5. Gross I.H. Crandall, E.W. Crandall and Knall, N.M (1980) Management for Morden Families
- 6. Donnelly J.H. Gibson, J.L. and Francirish J.M. (1995) Fundamentals of Managements Chicago
- 7. Fisher C.O. (1997) Human Resources Management Chennai, All India Publishers and Distributors
- 8. Kale M.G. (1998) Management and Human Resources
- 9. izcU/k & ukSy[kk

### **PRACTICAL**

Hours –2 hrs/week Max Marks- 50 Duration of Examination- 3 hrs Min Pass Marks : 18

- 1. Identification of self as aresource –swot analysis (who am I)
- 2. Building decision making abilities through management games
- 3. Preparation of time plans for self and family
- 4.making achart/poster/pemplets on resources conservation
- 5.application of managerial process for various events like party ,occasion etc.

### Marks Distribution

	Total Marks	50
5.	Viva	10
4.	Exercise-5	10
3.	Exercise -4	05
2.	Report of Exercise 1,2,3	15(internal)
1.	Records and file	10(internal)

# Paper 6 HUMAN DEVELOPMENT I Life Span Development

Max Marks: 100

**Hours/Week** – 4 hrs /week

**Duration Examination** – 3 hrs

Note: each theory paper is divided to three parts, Part -A, Part-B and Part-C

**Part A:** (20 marks) is compulsory and contain 10 Questions (20 words each) at least 3 Questions from each Unit. (Each question is of 2marks)

**Part B:** (20 marks) is compulsory and contain 5 question (50 words each) at least one question from each unit (each question is of 4 mark)

Part C: (60 marks) contains at least 6 questions two from each unit (400 words)

Candidate is required to attempt 3 question one from each unit.

(Each question is of 20 marks)

### **Contents:**

### **UNIT I**

- 1. Introduction to Human Development
  - a. Concept, Meaning & Definition,
  - b. Growth and Development
  - c. Human Development and Human Psychology
- 2. a. Methods of studying Human Development

- b. Principles of Human Development
- c. Factors affecting Human development
- 3. Stages of Human Development
- 4. Prenatal Development: The Period of the Zygote, Embryo and Fetus, The Apgar Scale
- 5. Infancy and Babyhood:New Born Reflexes,The sequence of motor development in infancy,developmental task in babyhood,Physical Growth:Changes in Body size,body proportions,muscles fat make up and gross motor skills, Handedness,social smile,sepration and stranger anxiety

### **UNIT II**

- 6. Childhood: Stages of Childhood, Characteristics and developmental tasks.
- 7. Speech and Language development
  - a. Pre speech & speech forms of communication
  - b. Hazards in speech development :speech disorders and speech defects.
  - c. Chomsky's Theory
- 8. Cognition Development
  - a. Cognition, Cognitive concepts of piaget's Theory
  - b. Cognitive activities for early childhood, factors affecting cognitive development
- 9. Moral Development
  - a. Definition and Pattern of moral development
  - b. Stages of of Moral development(moral development in Babyhood, Early childhood, late childhood)
  - c. Discipline:DefinitionTechniques of discipline
- 10. Social Development
  - a. Definition, importance of early social experiences of a child
  - b. Social development in Babyhood, special behaviour of Babyhood
  - c. Social development in Early Childhood and late Childhood, Some common forms of social behaviour in Early Childhood

### **UNIT III**

- 11. Emotional Development
  - a. Chidhood Emotions:Fear,Shyness,Worry,Anxiety,Anger,Jealousy,Curiosity, Affection
  - b. Characteristics of Children's Emotions
  - c. Factors affecting Childhood Emotionality
  - d. Emotional Dominance, Heightened Emotionality
  - e. Control on Emotions;Repression,Regression,Displacement, Indutriousness, Emotional catharsis

### 12. Play

- a. Meaning, Definition and difference between work and play
- b. Charecteristics of Children's play
- c. Types of Play ,importance of play,Factors influencing Development of Children's play

### 13. Creativity

- a. Meaning, Development of Creativity
- b. Conditions fostering creativity and unfavourable conditions to creativity

### c. Expression of Creativity in Childhood

### **PRACTICAL**

Hours – 2 hrs/week Max Marks- 50
Duration of Examination-3hrs Min Pass Marks : 18

- 1. Assessment of Growth and development through Anthropo metry
- 2. Psychometric Testing use of related to language and emotional development
- 3. Use of different method of studying Human Development
- 4. Preparation and use of teaching aids for promoting various developments.
- 5. Planning and implementing activities promoting various development

### Distributions of Marks

1.	Anthropometry		5
2.	Psychimetric testing		5
3.	Method of studying human development		10
4.	Teaching Aids		10
5.	Activity Planning & Implementation		5
6.	File & record		10
7.	Viva Voce		5
		Total	50

### **References:**

- 1. Hurlock E.B.: Child Development, 1978 McGraw Hill, London
- 2. Hurlock E.B.: development Psychology, A Life Span Approach 1980, 5<sup>th</sup> ed. Tata McGraw Hill, New Delhi
- 3. Mussen, P.H.: Conger, J.J.:Kangan J. Child development and Personality 1979, 5<sup>th</sup> ed. Harper and Row, New York
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- 9. Berk, L.E.(1996) Child development, Prentice hall, New Delhi
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- 13. Steward, Clarke. A. And Friedman S.(1987) Child Development: Infancy through Adolescence, John Wiley and sons
- 14. Papalia, D.E. and Olds, S.W. (1978) Human Development McGraw Hill Book Company
- 15. Sharma, N. (1999), Understanding Adolescence, New Delhi, NBT
- 16. Devedas R.P. Jaya, N.A.: text book of Child Development, 1984 Mac Millan, New Delhi
- 17. Gulati R et al (1994) Child Development: A Practical Manual , Phoenix Publishing House Pvt. Ltd. New Delhi

# Paper 7 TEXTILES AND CLOTHING I

### **Introduction to Textile and Clothing**

Max Marks: 100

**Hours/Week** – 4 hrs /week

**Duration Examination** – 3 hrs

Note: each theory paper is divided to three parts, Part -A, Part-B and Part-C

**Part A:** (20 marks) is compulsory and contain 10 Questions (20 words each) at least 3 Questions from each Unit.(each question is of 2 mark)

**Part B:** (20 marks) is compulsory and contain 5 question (50 words each) at least one question from each unit (each question is of 4 mark)

Part C: (60 marks) contains at least 6 questions two from each unit (400 words)

Candidate is required to attempt 3 question one from each unit.

(Each question is of 20 marks)

### **Contents:**

### **UNIT I**

- 1. Textile Fibres & Their Properties
  - a. Classification of Fibres, terminology in textiles
  - b. History, Molecular structure, production and properties primary and secondary and uses of cotton, linen, jute, wool, silk, rayon, polyester, acrylics, elastomeric fibres.

### **UNIT II**

- 2. Yarn Constructions
  - a. Basic Principles of Yarn Constructions
  - b. Mechanical Spinning (cotton, wool and other)
  - c. Chemical Spinning (wet, dry, melt and other methods)
  - d. Types of yarns Classification and Manufacturing (Simple, Complex and Sewing thread)
  - e. Properties of Yarn yarn numbering systems, strength and twist
- 3. Introduction to clothing
  - a. Social and Psychological aspects of clothing
  - b. Functions of Clothing
  - c. Theories of clothing
  - d. Clothing in relation to status, culture and rituals
  - e. Individuality and conformity

### **UNIT-III**

### 4. Fashion

- a. Terminology, sources, fashion cycle and season
- b. Factors favouring fashion cycle and season
- c. Customer demand and fashion marketing
- d. Fashion Change
- 5. Principles of Clothing Constructions
  - a. General Principles of clothing constructions drafting and making paper patterns
  - b. Body measurement importance of taking body measurement and its relation to sizes and different types of garments
  - c. Preparation layout, pinning, marking and cutting
  - d. Equipment and supply used in clothing construction, their maintenance, problem andfaced remedies with specific reference to sewing machine.

### **PRACTICAL**

Hours – 2 hrs/week Max Marks- 50 Duration of Examination-3hrs Min Pass Marks : 18

- 1. Fibre Identification visual, microscopic, burning and chmical
- 2. Thread count
- 3. Hand Stitches (Sample)
  - a. Functional Temporary and permanent
  - b. Decorative
- 4. Seams and seam –finishes (Sample)
- 5. Fullness plackets, fasteners (Simple)
- 6. Collars, sleeves, pockets (simple and variations )(Sample)
- 7. Patch Work and darning (Sample)
- 8. Introduction to sewing machine and its functions
- 9. Practical related unit V of theory syllabus
- 10. Basic bodice block child and adult

### Distribution of Marks

1.	Record & File		10marks
2.	Fibre Identification		7marks
3.	Thread count		7 marks
4.	Hand stitches, seams & seam finishes		10 marks
5.	Sample of item no. 6, 7, and 8		6marks
6.	Vice-voce		10 marks
		Total	50 marks

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1. Joseph, Marjory L:"Introductory Texttiles Scinecne" Holt, Tichard and Winstone N. York

- 2. Wintage, IsbelB: "textiles and Fibrics and Their Solutions" Pretice Hall. Inc. Engewood Cliffs, N. Jersey
- 3. Joseph, Marjory L: Essentials of Textiles "Hold, Rinehart and Winston, New York
- 4. Hess, Ktherine Paddock "Textiles Fabrics and Their uses Oxford and IBH-Publishing Co. N. Delhi
- 5. Corbman Bernard:"Textiles fibre to Fabric": McGraw Hill-Book Company, New York
- 6. Hollen Norma. Saddle Jane, Angford Anna "Textiles": Macmilan Publishing Co. Inc. N. York
- 7. Deulkar Durga: Household Textiles and Laundry Work": Atma Ram & Sons. N. Delhi
- 8. Dhatyagi: Susheela :"Fundamentals of Textiles and Their care": Orient Longmans Bombay
- 9. Smith Betty F. And Black Ira Textiles in Perspective Prentice Ha;; INC Englewwod life elifee Jersey
- 10. Kefgen, Mary and Speent Phylies "Individuality in selection and Personal appearance" Macmillan Publishing, New York
- 11. Erur, Mabil and Kinchen, "Clothing for Morden", Macmillan Publishing, New York
- 12. Mathew Mary: Practical Clothing Construction I & II Cosmic Press, Madras
- 13. Doongaji S and Deshpande R- Basic Processes of Clothing Construction