# VIMALA COLLEGE (AUTONOMOUS) THRISSUR

## KERALA- 680009, INDIA

(NAAC Re-accredited(3<sup>rd</sup> Cycle): A Grade, CGPA-3.50)

Affiliated to University of Calicut



## **B.Sc. DEGREE PROGRAMME**

## IN

## FAMILY AND COMMUNITY SCIENCE

Choice Based Credit and Semester System (CUBCSS UG-2014)

SYLLABUS AND SCHEME FOR CORE, COMPLIMENTERY and OPEN COURSES (2017 ADMISSION ONWARDS)



## SYLLABUS FOR B.Sc FAMILY AND COMMUNITY SCIENCE PROGRAMME (CORE COURSES) (2017 Admission Onwards)

Pattern of the model question paper, scheme of evaluation for internal examination and credit distribution have been included.

## B Sc FAMILY AND COMMUNITY SCIENCE PROGRAMME COURSE STRUCTURE

#### **Credit Distribution**

	Comm	on Course		Complement	ary Course		
Semester	English	Additional language	Core Course			Open Course	Total
				Chemistry	Botany/ Zoology/ Physics		
Ι	4+3	4	2	2	2	-	17
II	4+3	4	2	2	2	-	17
III	4	4	2	2	2	-	14
IV	4	4	3+4*	2+4*	2+4*	-	27
V	-	-	3+3+2*+2+ 2*+2+*2+ 2**	_	-	2	20
			5+5*+5+5*+ 2+3				
VI	-	-		-	-	-	25
Total	22	16	56	12	12	2	120

\*Practical \*\*Project

## Mark Distribution and Indirect Grading System

Mark system is followed instead of direct grading for each question. After external and internal evaluations marks are entered in the answer scripts. Indirect Grading System in 7 point scale will be followed. Each course is evaluated by assigning marks with a letter grade (A<sup>+</sup>, A, B, C, D, E or F) to that course by the method of indirect grading.

#### Mark Distribution

Sl.No.	Course	Marks
1	English	600
2	Additional Language	400
3	Core course: Family and Community Science	1750
4	Complementary course: Chemistry	400
5	Complementary course: Botany/Zoology/Physics	400
6	Open Course	50
	Total Marks	3600

#### Seven point Indirect Grading System

% of Marks	Grade	Interpretation	Grade Point	Range of Grade	Class
			Average	points	
90 and above	$A^+$	Outstanding	6	5.5-6	First Class with distinction
80 to below 90	Α	Excellent	5	4.5 - 5.49	
70 to below 80	В	Very good	4	3.5 - 4.49	First Class
60 to below 70	C	Good	3	2.5 - 3.49	
50 to below 60	D	Satisfactory	2	1.5 - 2.49	Second Class
40 to below 50	E	Pass/Adequate	1	0.5 - 1.49	Pass
Below 40	F	Fail	0	0 - 0.49	Fail

An aggregate of E grade with 40% marks (after external and internal put together) is required in each course for a pass and also for awarding a degree. Appearance for Internal Assessment (IA) and End Semester Evaluation (ESE)) are compulsory and no grade shall be awarded to a

candidate if she/he is absent for IA/ESE or both.

After the successful completion of a semester, Semester Grade Point Average (SGPA) of a student in that semester is calculated using the formula given below. For the successful completion of a semester, a student should pass all courses. However, a student is permitted to move to the next semester irrespective of SGPA obtained.

The Semester Grade Point Average can be calculated as

SGPA = Sum of the credit points of all courses in a semester Total credits in that semester  $ie., SGPA = C1*G1 + C2*G2 + C3*G3 + \dots \dots \dots$  n

where G1, G2, ... are grade points of different courses; C1, C2, ... are credits of different courses of the same semester and n is the total credits in that semester.

The Cumulative Grade Point Average (CGPA) of the student is calculated at the end of a programme. The CGPA of a student determines the overall academic level of the student in a programme and is the criterion for ranking the students. CGPA can be calculated by the following formula

The Cumulative Grade Point Average (CGPA) can be calculated as

CGPA=<u>Total credit points obtained in all semesters</u> Total credits

## CREDIT AND MARK DISTRIBUTION IN EACH SEMESTERS (2017 Admission Onwards) Total credits: 120; Total Marks: 3600

Semest	Course	Credit	Marks
er			100
	Common course: English	4	100
	Common course: English	3	100
Ι	Common course: Additional Language	4	100
	Core Course: VFCIBOI - Fundamentals of Nutrition	2	100
	Complementary course: Chemistry	2	80
	Complementary course: Botany/Zoology/Physics	2	80
	Total	17	560
	Common course: English	4	100
	Common course: English	3	100
п	Common course: Additional Language	4	100
11	Core Course : VFC2BO2- Human Development	2	100
	Complementary course: Chemistry	2	80
	Complementary course: Botany/Zoology/Physics	2	80
	Total	17	560
	Common course: English	4	100
	Common course: Additional Language	4	100
III	Core Course : VFC3BO3- Research Methodology and Bio Informatics	2	100
	Core Course : VFC3BPL1- Research Methodology and Bio Informatics	-	_
	Complementary course: Chemistry	2	80
	Complementary course: Botany/Zoology/Physics	2	80
	Total	14	460
	Common course: English	4	100

<b>TT</b> 7	Common course: Additional Language	4	100
IV	Core Course : VFC4BO4- Food Science	3	100
	Core Course Practical: VFC4BPL2-Food Science	4	100
	Complementary course: Chemistry	2	80
	Complementary course: Botany/Zoology/Physics	2	80
	Complementary course: Chemistry Practical	4	80
	Complementary course: Botany/Zoology/Physics Practical	4	80
	Total	27	720
	Core Course : VFC5BO5-Human Physiology and Microbiology	3	100
	Core Course : VFC5BO6-Diet in Health	3	100
	Core Course Practical : VFC5BPL3-Diet in Health	2	50
	Core Course : VFC5BO7-Family Resource Management	2	100
V	Core Course Practical : VFC5BPL4-Family Resource Management	2	100
	Core Course : VFC5BO8-Textile Science	2	100
	Core Course Practical : VFC5BPL5-Textile Science	2	50
	Open Course : VFC5D01: Food Science and Basic Cookery VFC5D02: Interior Decoration VFC5D03: Textiles and apparel designing	2	50
	Project	2	50
	Total	20	700
	Core Course : VFC6BO9- Dietetics	5	100
	Core Course : VFC6BPL6- Practical VI- Dietetics	5	100
	Core Course : VFC6B10-Fabric care and Apparel designing	5	100
VI	Core Course : VFC6BPL7-Practical VII- Fabric care and Apparel designing	5	100
	Core Course: VFC6B11-Concepts in Family Relation	2	100
	Core Course: Elective Courses	3	100
	Total	25	600
	Grand Total	120	3600

## **B Sc FAMILY AND COMMUNITY SCIENCE**

## CORE COURSE STRUCTURE UNDER CUBCSS (2017 Admission Onwards)

Semes		SE STRUCTURE UNDER CUBCS	Hrs/			Marks	
ter	Code No.	Course Title	Week	Credit	EE (80%)	IE (20%)	Total
Ι	VFCIBOI	Fundamentals of Nutrition	4	2	80	20	100
II	VFC2BO2	Human Development	4	2	80	20	100
	VFC3BO3	Research Methodology and Bio Informatics	3	2	80	20	100
III	VFC3BPL1	Practical I- Research Methodology and Bio Informatics	2	-	-	-	-
IV	VFC4BO4	Food Science	3	3	80	20	100
	VFC4BPL2	Practical II -Food Science	2	4	80	20	100
	VFC5BO5	Human Physiology and Microbiology	4	3	80	20	100
	VFC5BO6	Diet in Health	3	3	80	20	100
$\mathbf{V}$	VFC6BPL3	Practical III – Diet in Health	4	2*	40	10	50
	VFC5BO7	Family Resource Management	2	2	80	20	100
	VFC6BPL4	Practical IV- Family Resource Management	2	2*	80	20	100
	VFC5BO8	Textile Science	2	2	80	20	100
	VFC6BPL5	Practical V- Textile Science	4	2*	40	10	50

		GRAND TOTAL		58			1800
	VFC5D03:	Textiles and Apparel Designing					1000
	VFC5D02:	Interior Decoration					
	VFC5D01:	Food Science and Basic Cookery	2	2	40	10	50
					EE	IE	Total
						Marks	
		OPEN COURS	SE		1	1	
		TOTAL		56			1750
		Communication					
	VFC6E03	Extension Education and					
		Techniques					
	VFC6E02	Quantity Food Preparation					
	VFC6E01	Entrepreneurship Management	3	3	80	20	100
		Elective Courses**					
	VFC6B11	Concepts in Family Relation	4	2	80	20	100
VI		Apparel Designing					
	VFC6BPL7	Practical VII- Fabric Care and	4	5	80	20	100
		Designing					
	VFC6B10	Fabric Care and Apparel	5	5	80	20	100
	VFC6BPL6	Practical VI- Dietetics	4	5	80	20	100
	VFC6BO9	Dietetics	5	5	80	20	100
	VFC6PR	Project	2	2*	40	10	50

\* Exam will be held at the end of 6<sup>th</sup> semester

\*\* An institution can choose any one among the three courses

## **EVALUATION**

## A) Theory: Every Semester

100 Marks for each paper.

## **QUESTION PAPER PATTERN FOR CORE**

For a paper total marks is 80+20=100.

External : 80marks, Internal : 20 mark

Open course, 40+10=50

Project work, 40+10=50

## Distribution of marks and type of questions.

## Internal marks distribution

Sl.No	Criteria	Marks
1	Attendance	4
2	Assignments	4
3	Seminar	4
4	Internal Examination-2	8
	Total	20

#### External marks distribution

Category	Total	To be	Marks for	Total
	Questions	answered	each question	
Section A – One sentence	10	10	1	10
Section B- Paragraph	12	10	2	20
Section C- Short essay	8	5	6	30
Section D-Essay	4	2	10	20
	Total	1	1	80

## **Open course marks distribution**

## Internal marks distribution

Sl.No	Criteria	Marks
1	Attendance	2
2	Assignments	2
3	Seminar	2
4	Internal Examination -2	4
	Total	10

## **External marks distribution**

Category	total	To be	Marks for	Total
	Questions	answered	each	
			question	
Section A –one word	5	5	1	5
Section B- One sentence	5	5	2	10
Section C- Paragraph	5	3	5	15
Section D-Essay	3	1	10	10
	Total			40

## **B) PRACTICAL**

## Practical internal marks distribution

## (VFC6BPL3-DIET IN HEALTH & VFC6BPL5-TEXTILE SCIENCE)

Sl.No	Criteria	Marks
1	Attendance	2
2	Performance	2
3	Record	2
4	Internal Examination -2	4
	Total	10

## VFC6BPL4- PRACTICAL IV- FAMILY RESOURCE MANAGEMENT

Sl.No	Criteria	Marks
1	Attendence	5
2	Performance	8
3	Record	5
4	Handicraft	2
	Total	20

VFC4BPL2- PRACTICAL II -FOOD SCIENCE, VFC6BPL6- PRACTICAL VI-DIETETICS & VFC6BPL7- PRACTICAL VII- FABRIC CARE AND APPAREL DESIGNING

Sl.No	Criteria	Marks
1	Attendance	4
2	Performance	4
3	Record	4
4	Class test (2)	8
	Total	20

Practical -External marks distribution

## **VFC4BPL2 -FOOD SCIENCE PRACTICAL II**

Sl.No	Criteria	Mark
Ι	QUALITATIVE TES	TS
	TEST FOR CARBOHYDRATE	
Ι	Molish's test	4
Ii	Benedict's test	4
Iii	Fehling's test	4
Iv	Barfoed's test	4
V	Seliwanoff's test	4

Vi	Phenyl hydrazine test	8
Vii	Result	2
	TOTAL	30
	OR	
	TEST FOR PROTEINS	
Ι	Coagulation	5
Ii	Molish's test	5
Iii	Biuret test	5
Iv	Millions test	5
V	Xanthoprotein test	5
Viii	Result	5
	TOTAL	30
II	<b>QUANTITATIVE</b>	TESTS
Ι	Principle	5
Ii	Procedure	8
Iii	Titre value	7
Iv	Steps	7
V	Result	3
	TOTAL	30
III	Record	20
	TOTAL	80

## VFC6BPL4 PRACTICAL IV FAMILY RESOURCE MANAGEMENT

Sl.No	Criteria	Mark
1	Presentation and Viva	35
2	Role performance	25
7	Record	20
	TOTAL	80

## **VFC6BPL3-DIET IN HEALTH**

Sl. No	Criteria	Mark
1	Diet Planning	10
2	Nutritive Value Calculation	10
3	Record	20
	TOTAL	40

## **VFC6BPL5-TEXTILE SCIENCE**

SI.	Criteria	Mark
No		
1	Neatness and Completion	10
2	Selection of Samples	10
3	Record	20
	TOTAL	40

## **VFC6BPL6 PRACTICAL VI DIETETICS**

Sl.No	Criteria	Mark
1	Presentation and taste	16
2	Serving and Presentation	4
3	Time and Cleanliness	4
4	Principle	4
5	Menu Plan	16
6	Calculation	8
7	RDA (8 nutrients with units)	8
8	Record	20
	TOTAL	80

## VFC6BPL7 PRACTICAL VII FABRIC CARE AND APPAREL DESIGNING

Sl . No	Criteria	Mark
1	Drafting	10
2	Construction	10
3	Grain	4
4	Identification	12
5	Neatness and Completion	2
6	Embroidery	2
7	Garments	20
8	Record	20
	TOTAL	80

## PROJECT

## **Project evaluation (Internal Marks)**

Sl.No	Criteria	Marks
1	Initiative	1
2	Interest in Research	1
3	Regularity	1
4	Efficiency	1
5	Writing Skills	1
6	Project Presentation	2
7	Viva	3
Total		10

## **Project evaluation (External Marks)**

Sl.No	Criteria	Marks
1	Choice of the Topic	2
2	Introduction and Objectives	3
3	Review of literature and Bibliography	5
4	Methodology	3
5	Results and Discussion	10
6	Summary and conclusion	2
7	Presentation	5
9	Over all	3
10	Viva	7
	TOTAL	40

#### **SEMESTER I**

#### **VFC1B01 FUNDAMENTALS OF NUTRITION**

#### Credits: 2

#### Theory: 4hrs / week

#### **Objectives:**

To enable the students to gain information about the sources, functions and effects of deficiency of various nutrients.

#### Unit I Introduction to human nutrition

Definition- Nutrition ,health, Malnutrition, Nutritional Status..Nutritional classification of foods (5hrs)

#### **Unit II Recommended Dietary Allowances**

ICMR Recommended Allowances for Indians (RDA) - Reference man & reference woman. (5hrs)

#### **Unit III Study of Macronutrients**

Carbohydrates, proteins and fat - Classification, functions, digestion, absorption, metabolism, sources, requirements and deficiency. (22hrs)

**Unit IV Study of Vitamins** Functions, sources, deficiency and requirements of :-Fat soluble vitamins (Vitamin A, D, E and K) and water soluble vitamins (Vitamin B- Thiamine, Riboflavin, Niacin, folic acid and vitamin B12 and vitamin C) (12hrs)

**Unit V Study of minerals** Functions, sources, deficiency and requirements of: - Calcium, Iron, Iodine, Fluorine. (10hrs)

#### Unit VI Study of energy

Definition, Determination of Energy value of food by Bomb Calorimeter, Total energy requirements – BMR – factors effecting BMR, physical activity, physiological fuel value (12hrs) Unit VII **Water** Functions, water balance and requirements. (6hrs)

#### References

1. Sri. Lakshmi B., Nutrition Science, New Age International (p) Ltd, New Delhi - 2002.

2. Swaminathan M., Handbook of Food and Nutrition, the Bangalore Printing and Publishing co., Ltd., Banglore.2003.

3. Bamji M.S. et.al. Textbook of Human Nutrition, Oxford, IBH Publishers, 1999.

## SEMESTER II

## VFC2B02 HUMAN DEVELOPMENT

#### Credit: 2

#### Hours: 4hrs / Week

## **Objectives**

1. To provide scientific knowledge about human development and behavior.

2. To know the needs of children at different stages of development.

3. To give an awareness of the needs and problems of exceptional children.

## **Unit I Principles of growth development**(2 hrs)

Stages of development, Importance of heredity and environment in the development of the child.

## Unit II Prenatal period(6 hrs)

Conception, stages of development, complications of pregnancy, factors influencing prenatal development, antenatal care.

## Unit III Neonate (4 hrs)

Characteristics, abilities and adjustments.

## Unit V Babyhood, Early childhood, late childhood (12 hrs)

Physical, motor, emotional, social, moral, cognitive and language development. Discipline methods and effects. Habit formation.

## Unit VI Adolescence (12 hrs)

Characteristics, physical, social, emotional, cognitive and moral development, problems of adolescence. Sex education- need and significance.

#### Unit VII Adulthood(10 hrs)

characteristics and problems.

## Unit VIII Pre-school education (10 hrs)

Objectives and types of pre schools- nursery, balwadi, laboratory nursery school, kindergarten and Montessori.

## Unit IX Play (4 hrs)

Theories, values and types.

## Unit X Juvenile delinquency (2 hrs)

Causes and rehabilitation, child's laws and rights

## Unit XI Exceptional children (10hrs)

Definition, causes, classification, identification, need for special education – gifted child, mentally handicapped, physical and sensory.

## **Related experience**

1. Observation of the following developments of a child in preschool- physical, social, emotional and intellectual development.

2. Visit to any of the two places - day care centre/ special school/ balwadi / play school.

## References

- 1. Hurlock E.B., Child Development, Mc Graw Hill, Kogakurtia Ltd.
- 2. Hurlock E.B., Child Growth and Development, Mc Graw Hill
- 3. Hurlock E.B., Developmental Psychology, Mc Graw Hill
- 4. Devadas R.P. and Jaya N. (1984) A Textbook on Child Development, Mac Millan, India ltd.
- 5. Suriakanthi A. (1989) Child Development, Kavitha Publication, Gandhigram.

6. Stewart A.C. and Friedmans (1987) Child development: Infancy through Adolescence, Willy International.

7. Gaij G.T. (1989) Human Development, Prentice Hall, New Jersey.

#### **SEMESTER III**

#### **VFC3B03 - RESEARCH METHODOLOGY AND BIOINFORMATICS**

#### Credits: 2

#### Hour: 3 hrs/week

#### PART A- RESEARCH METHODOLOGY

#### **Objectives**

1. To understand the methodology of research its principles and techniques

2. Developing and understanding research from a report writing

#### Unit I Fundamentals of Research: (8hrs)

Definition of research, objectives, characteristics and types – action research, applied research, expost facto research, historical research, fundamental research.

#### UNIT II Defining research problem (5hrs)

Definition and selection, necessity of defining the problem, technique involved in defining a problem

#### Unit III Research design / proposal (10hrs)

Meaning and purpose of a research design or proposal, research problem definition, identification, statement of research problem, criteria for selection, definition of concepts (operational definition).Variables - types of variables, independent and dependent variables, control and intervening variables. Hypothesis AND related literature –Meaning

#### Unit III Methods of data collection (5hrs)

Collection of primary data – observation method, Interview method, collection of Data through questionnaires and schedules, other methods of data collection, collection of secondary data

#### **Unit IV Research Tools** (2hrs)

Questionnaire, observation, interview schedule and other tools used.

#### Unit V Sampling (5hrs)

Sampling methods, merits and demerits of sampling

#### Unit VI Research Report Writing (5hrs)

Principle of research report, contents in a report

#### References

1. Kothari.C.R., Research Methodology. Wiley Eastern Limited, New Delhi,2000

2. Best.W.J and Kahn V.J., Research in Education, 7th edition, Prentice Hall Private Ltd. New Delhi

3. Koul.L., Methodology of Educational Research,2ndedition, Vikas publishing house ltd., New Delhi

#### PART B BIOINFORMATICS

#### **Objective**

To provide the basic knowledge in the discipline and application of bioinformatics

#### Unit I – Introduction to bioinformatics (2hrs)

Definition, Branches- genomics and proteomics, Scope- Application of bioinformatics in various fileds

#### Unit II – Key biosequences in molecular biology

Nucleic acid and aminoacids

#### Unit III - Introduction to data bases (5hrs)

Definition, Important data bases , - primary secondary and derivative databases

Definition and examples of Nucleotide sequence databases and Protein sequence databases Define database search engine-

#### Unit IV – Tools of bioinformatics (5hrs)

Sequence analysis, Tools, short notes on BLAST, FASTA, AND PSI- BLAST

#### References

- Attwood, T K & D J Parry Smith. 1999> Introduction to Bioinformatics. Addison Wesley Longman
- 2. John Wiley & Sons. Inc., publications, NewYork

- Khan I A & A Khayum. 2002, Fundamentals of Bioinformatics, Ukkkaz Publications, Hyderabad
- 4. Less A M. 2002. Introduction to Bioinformatics. Oxford University press. Oxford

#### **SEMESTER III**

## VFC3BPL1 PRACTICAL 1 -RESEARCH METHODOLOGY AND BIOINFORMATICS Credit: 0 Hour: 2 hrs /week

- 1. Prepare a research tool questionnaire, interview schedule
- 2. Conduct a community survey on relevant topics of Home Science.
- 3. Prepare a research proposal
- 4. Observational study on developmental pattern of preschool children
- 5. Conduct a nutritional assessment survey among college students
- 6. Conduct a community awareness programme

## SEMESTER IV

## VFC4B04 FOOD SCIENCE

#### Credits: 3

Theory: 3hrs / week

## Objectives

To enable students

- 1. Understand the nutritive composition of different food groups.
- 2. Impart knowledge about the different methods of cooking and food preservation.

## **Unit I Introduction to food science** (4 hrs)

- 1. Definition of food and functions of food
- 2. Food pyramid, basic five food groups and uses
- 3. Cooking-objectives and different methods of cooking.

## Unit II Study of foods (38 hours)

## 1. Cereals

Structure (wheat) and nutrient composition cereal products, effect of heat on starch.

## 2. Pulses and Nuts and Oil seeds.

Nutritive composition and germination and anti-nutritional factors.

## 3. Vegetables

Classification and nutritive composition and selection, pigments

#### 4. Fruits

Composition and nutritive composition, browning reaction

## 5. Milk and milk products

Nutrient composition of milk and milk products - curd, butter, ghee, skimmed milk, effect of

heat

## 6. Eggs

Structure, nutritive composition, characteristics of fresh eggs and deterioration of eggs.

#### 7. Meat

Nutritional significance and post-mortem changes.

#### 8. Fish

Nutritional significance and selection.

#### 9. Fats and Oils

Nutritional importance, smoking temperature and rancidity.

10. Beverages -Classification

## 11. Sugar and its products

Caramalisation, hydrolysis, crystallization and stages of sugar cookery

## Unit III Food preservation ( 6hrs)

Principles and methods

## **Unit IV Food adulteration** (4 hrs)

Common adulterants and simple Test for detection of Adulterants

## References

1. Norman, N. Potter and Hotchkiss, J.H, Food Science, CBSE publishers and Distributers, New Delhi, 1996.

2. Mudambi, S.R. and Rao , S.M. Food Science, New Age International (P) ltd. Banglore, 1989.

3. Begum, M.P., A Text Book of Food, Nutrition and Dietetics, sterling Publishers Pvt. Ltd., New Delhi, 2001.

4. Srilakshmi, B., Food Science, New Age International Pvt. Ltd., New Delhi.

5. Mudambi, S.R. and Rajagopal M.V., Fundamentals of Food & Nutrition, New Age

International (P) Ltd., New Delhi, 1990.

6. Swaminathan, M. Handbook of Food and Nutrition, The Banglore Printing and Publishing Co., Ltd., Banglore, 20

#### SEMESTER IV

#### **VFC4BPL2 PRACTICAL II FOOD SCIENCE**

#### Credits: 4

#### Practical: 2hrs / week

#### Module I Food preparation

i. Record the weight of 1 cup/ 1tbsp/ 1tsp of different types of food stuffs.

ii. Record the ratio of raw to cooked volume of rice, rava and pulses.

iii. Simple preparations using cereals, pulses, vegetables, fruits, milk, egg, meat and fishusing different cooking methods.

iv. Weaning recipes

v. Food preservation – Jam, squash, pickles

#### Module II FoodAnalysis i.

#### Qualitative tests for

a. Proteins

b. Carbohydrates - Monosaccharide (glucose, fructose) and disaccharides

#### ii . Quantitative tests

- a. Vitamin C in lime juice (dye method)
- b. Estimation of reducing sugar by Benedict's method
- c. Calcium in food demonstration

#### SEMESTER V

## VFC5B05 HUMAN PHYSIOLOGY AND MICROBIOLOGY

## Credits: 3

#### Theory: 4 hrs / week

## Part-I HUMAN PHYSIOLOGY

#### **Objective**

To study about the various systems and functions of the human body.

#### Unit I Blood (7 hours)

Functions, composition, blood formation and destruction, hemoglobin, blood coagulation, blood groups, Rh factor, Erythroblastosis foetalis.

## Unit II Circulatory System (9 hours)

Heart- structure, properties of heart muscle, Special conducting tissues, cardiac cycle, Heart sound, pulse, Heart rate, blood pressure, ECG.

## Unit III Digestive System (8 hours)

Structure and functions of Digestive Tract, Functions of various secretions and juices, Functions of accessory organs such as salivary glands, tongue, liver, gall bladder and pancreas.

## Unit IV Urinary System (5 hours)

Structure and functions of kidney, structure of Nephron, urine formation and micturition

## Unit V Reproductive System (8 hours)

Male and Female reproductive organs in brief, ovarian and uterine cycle's, fertilization, implantation, parturition.

#### Unit VI Endocrine System (8 hours)

Structure and functions of pituitary gland, thyroid gland, parathyroid gland, Pancreas, adrenal glands and sex glands (ovaries, testis and placenta).

## References

1. Chatterjee C.C., Human Physiology, (11thedition), vol 1 & 2, Medical Allied Physiology (1987).

2. Sarada Subramaniam and Madhavankutty K.A, A Concise Text Book of Physiology Orient Longman pub. New Delhi.

 Vidya Ratan ,Hndbook of Human Ohysiology, Jaype Brothers ,Medical Publishers New Delhi, 110002

- 4. Sherman Veneles and Luriano, Human Physiology.
- 5. Best, Herbert Charles and Taylor, Burke Norman The Living Body
- 6. Text Book of Human Pysiology ,S.Chand and Co.Pvt.Ltd. Ram Nagar, New Delhi
- 7. Fred.E.D Armour, Basic Physiology, Oxford and IBH Publishing Co, New Delhi

#### PART -II MICROBIOLOGY

**Objective**: Elementary knowledge about microorganisms and their role in health and diseases. **Unit I** (2hours)

Introduction, Importance of the study of microbiology and classification of microorganisms. **Unit II** (5hours)

Bacteria and Bacterial Diseases Morphology, factors affecting growth, reproduction, spore formation. Pneumonia, tuberculosis, meningitis, gonorrhea, syphilis, typhoid, cholera and tetanus. Control and Destruction Of Bacteria Sterilization and disinfection

**Unit III** (2 hours)

Yeasts Morphology and economic importance

**Unit IV** (5 hours)

Virus and Viral Diseases, Morphology – Bacteriophages. Chicken pox, mumps, poliomyelitis, rabies, infective hepatitis, Chikunguinea, Dengue and AIDS.

**Unit V** (3 hours)

Infection and Immunity: Sources of infection and methods of transmission. Immunity Classification –innate and acquired, active and passive immunity, immunization schedule for children

**Unit VI** (2 hours)

Food fermentations: Cheese, bread, wine, fermented vegetables – methods and organisms used. Food and enzymes from microorganisms – single cell protein, production of enzymes.

#### **Unit VII** (4 hours)

General principles underlying spoilage, Spoilage of different kinds of foods, cereals and cereal products – sugar and sugar products – vegetable and fruits – meat and meat products – fish and other sea foods – eggs and poultry – dairy and fermentative products (ice cream/milk/bread/wine).

**Unit VIII** (4 hours)

Food Poisoning: food borne infections (a) Bacterial: Staphylococcal, Brucella, Bacillus,

Clostridium, Escherichia, and Salmonella (b) Fungal: Mycotoxins including aflatoxins, (c) Viral:

Hepatitis, (d) Protozoa – Amoebiasis.

## **References:**

- 1. Anna .K.Joshua, Microbiology, Popular Book Depot, Madras 15.
- 2. Barnes and Noble, Bacteriology –Principles and practices.

## SEMESTER V VFC5B06 DIET IN HEALTH

#### Credit: 3

#### Theory: 3hours/week

#### **Objectives**

To enable the students to

1. Understand the role of nutrition in different conditions.

2. Develop competency in planning diets to meet the nutritional requirements of different socioeconomic levels.

#### Unit 1 Meal Planning (4hrs)

Link between health and Nutrition, different food groups, menu planning, balanced diets

#### Unit II Nutrition In Pregnancy (6hrs)

Nutritional status and general health, physiologic changes, nutritional requirements, dietary problems, complications

#### Unit III Nutrition In Lactation (4hrs)

Physiological adjustments during lactation, nutritional requirements, efficiency of milk production, diet of lactating women

#### Unit IV Nutrition In Infancy (6hrs)

Growth and development during infancy, nutritional requirements, breast feeding, artificial feeding, weaning foods suitable for infants

#### Unit V Nutrition In Preschool Age (5hrs)

Growth and development of preschool children, nutritional requirements, food habits and nutrient intake of preschool children, nutritional problems

#### Unit VI Nutrition In School Age (3hrs)

Physical development, food habits, nutritional requirements, nutritional status of school children

## Unit VII Nutrition during Adolescence (4hrs)

Nutritional requirements, food habits, nutritional problems

#### Unit VIII Nutrition for Adults (4hrs)

Nutritional requirements, nutritional status and health status

#### Unit IX Nutrition for Aged (6hrs)

Nutritional requirements, food habits, nutritional problems

## Unit X Nutrition in Special Events (6hrs)

#### Sports Nutrition

#### Unit XI Nutrition programmes and Agencies: (6hrs)

Important National Nutrition programmes- ICDS, Mid Day Meal Programme, Vitamin A prophylaxis Programme, Anaemia Prophylaxis Programme, goitre control programme, important national and international agencies working in the field of nutrition WHO, FAO, NIN, CFTRI.

#### References

1. Antia.F.P, Clinical Dietetics and Nutrition, Oxford University Press, New Delhi, 1997, 4th edition.

- 2. Srilakshmi.B, Dietetics, New Age International Pvt. Ltd. Publishers, New Delhi, 1997.
- 3. Swaminathan.M, Principles of Nutrition and Dietetics
- 4. Subhangini Joshi, Nutrition and Dietetics
- 5. Gopalan.C, Ramasastri.B.V, Nutritive value of Indian Foods, Vol.I, NIN, ICMR, 1994.

6. Mahan.J.K, Arlin.M.T, Krause's Food Nutrition and Diet Therapy 8th edition, W.B Saunders Company, 2001.

#### **SEMESTER V**

#### VFC6BPL3 PRACTICAL III -DIET IN HEALTH

#### Credit:2

#### Practical:4hrs/week

Planning diets to meet the requirement at different economic level- low, middle and high income for thefollowing conditions

Pregnancy

Lactation

Infancy

Preschool age

School Age

Adolescents

Adult

Old people

#### SEMESTER V

#### VFC5B07 FAMILY RESOURCE MANAGEMENT

#### Credit: 2

#### Hours: 2 hrs / Week

#### **Objectives**

- 1. To help students learn principles of resource management
- 2. To provide students knowledge on household economics
- 3. To make students conscious of aesthetics
- 4. To encourage students to apply theoretical knowledge in practical life

#### Unit I Principles of Resource Management (10hrs)

meaning & definition of home management, steps involved in management, decision making, values, goals & standards, qualities of an efficient home maker

#### Resources

Definition & classification, characteristics resources, and guides to increase satisfaction from resources

#### **Unit II Energy management (5 hrs)**

Fatigue-types, causes and methods to elevate fatigue

*Work simplification*-process chart, operation chart, flow process chart, Mundel's classes of change *Ergonomics*-meaning, importance, objectives, factors involved-man and his work, tools and equipment, indoor climate, furniture, ventilation, light, noise, storage

#### Unit III. Time management (3 hrs)

Principles & techniques, tools in making time plan, Gantt chart

#### **Unit IV Money management (3hrs)**

*Family income*-sources of income, types of income, supplementing the family income *Family expenditure*-family budget, steps in making family budget, Engels Law of consumption, savings, saving institutions-advantages

#### Unit V Housing (5hrs)

Functions of house, selection of site, principles of planning of house, kitchen layout

#### Waste management

Type of wastes, principles of waste management, disposal of waste. Recycling of waste and reuse of waste- biogas, vermiculture

#### Unit VI. Interior decoration (10 hrs)

Design- definition and types, Elements of design, principles of design Colour theory- dimensions, Prang's colour system and colour schemes Flower arrangement-types and principles Furniture selection, arrangement, and principle of arrangement Window treatments- types and curtain styles Accessories- classification- functional and decorative Home lighting- types

## References

1. Nickel, Pand Dorsey, J.M. Management in family living, Wiley Eastern Private Ltd, New Delhi, 1976

2. Gross, I.M & Grandall, D.W Management for Modern Families, 1973

3. Faulkner R & Faulkner S, Inside todays home, Holt Rinchart & Winston, Newyork

4. Rutt.A.H, Home furnishing, Wiley Eastern Private Ltd, New Delhi

- 5. Varghese.M.A, Ogale, N.N.Sreenivasan, K home Management, New Age International
- 6. Agan.T, The house-its plan & use, J.P.Lippincott company, Newyork, 1970

7. Ruth.F.Shewood, homes today and tomorrow, 1972, Chas.A.Benett company Illinois

8. Good house keeping guide to successful homemaking compiled by the editors of

housekeeping 1956, Harper and Brother Publisher, Newyork.

9. Agarwal, K.C. Enviormental Biology, Nidi publication.Ltd, Bikaner,2001.

10 Miller T.G., Enviornment science, Wardsworth publicationco. TB.

#### SEMESTER V

## VFC6BPL4 PRACTICL IV -FAMILY RESOURCE MANAGEMENT

#### Credit: 2

#### Hours: 2hrs / Week

- Residence stay for one week as practical's with report incorporating
- \_ Types of design-decorative, traditional and modern
- \_ Elements of design-applications
- \_ Principles of design-illustrations
- \_ Colour wheel
- \_ Colour schemes
- \_ Curtain styles
- \_ Accessories
- \_ Flower arrangement
- \_ Prepare 2 handicraft items

Or

Event management- planning, organizing, implementing and evaluating a group activity (party, exhibition)

## SEMESTER V

## **VFC5B08 TEXTILE SCIENCE**

## Credit: 2

## Theory: 2hrs / Week

## **Objectives**

1. To give each student a desire to recognize and appreciate textile fibres.

2. To give the students sound scientific theory concerning fibers', including their production, properties and uses

Unit I Fibre Theory: (3hrs)

Definition, primary and secondary properties of a fibre, classification of fibres, fibre identification.

## Unit II Textile Fibres- (5 hrs)

Major fibres- cotton, linen, silk, wool, nylon, polyester, rayon, acetate (production, properties and uses)

## **Unit III Yarn Construction (5 hrs)**

Definition, spinning- cotton system, open end, wet spinning, dry spinning, melt spinning, bi component spinning, bi constituent spinning, friction spinning, twistless spinning, yarn- twist, number and types, blends.

## Unit IV Fabric Construction (5hrs)

Looms- parts and operations- types of looms- handlooms, power loom and shuttle less looms, Preparation of yarns before weaving

Weaves- *Basic*- plain and derivatives, twill, bird's eye weave, herringbone twill, satin and sateen, *Novelty*- pile, leno, dobby, jacquard, double cloth, crepe, extra yarn weaves- spot (cut and continuous), lappet and swivel.

Fabric count and analysis, Blend and Mixtures

## Unit V Nonwovens- (5 hrs)

Knitting, felting, bonding, multicomponent, laces and nets, braiding.

## Unit VI Finishes (5 hrs)

Definition, classification, importance, types of finishes

**mechanical**- calendaring(friction, glazing, embossing, moireing and schreinerising), tentering, shearing, napping ,singeing,

**Chemical**-bleaching, mercerizing, sanforising, sizing, weighting, , crepe and crinkled effect, crease resistance,

special/functional- water repellency, flame proofing, mildew proofing and moth proofing .
Unit VII Dyeing and Printing (6hrs)

Dyes- definition and classification- direct, acid, basic, azoic, vat, sulphur, metal complex, mordant, reactive and disperse dyes and natural dyes. Methods of dyeing- fibre, stock, yarn, piece and garment.

Printing- styles- direct (block, roller, screen-hand screen, flat bed screen printing and rotary screen printing, stencil, duplex) discharge and resist (tie and dye, batik)

#### Unit VIII Environment and Textile Industry- (2hrs)

Environmental impacts related to cultivation, processing and uses.

Eco friendly fibres- jute, hemp, bamboo, organic cotton and recent trends.

Eco friendly practices and use of eco labels.

#### References

1. Marjory L. Joseph, Introductory Textile Science, Holt Rinehart and Winston, New York.

- 2. Susheela Dantyagi, Fundamentals of Textiles and their care, Orient Longmans, Madras
- 3. Hess, Textile fibres and their Uses, Oxford IBH Publishing Company, New Delhi.

4. Porter Corbman, Fibre to Fabric, Mc Graw Hill Book Company, New York.

5. www. fiber2fashion.com

#### SEMESTER V

#### **VFC6BPL5 PRATICAL V TEXTILE SCIENCE**

#### Credit: 2

#### Hours: 4hrs / Week

1. Collection of all fibres studied.

- 2. Identification of fibres by burning, microscopic and solubility tests.
- 3. Collection of all weaves studied.
- 4. Prepare a sample of block printing and tie and dye(1sample).

#### SEMESTER V

## VFC6PR-PROJECT

Credit: 2

Theory: 2hours / week

## Objectives

- To make the students research oriented
- To establish new research to contribute to program planning and evaluation

#### Content

- Development of research Programme
- Collection of Review
- Conduct Pilot Study in the field
- Conduct of work in the lab/ hospital/ community
- Analysis of Data
- ➢ Writing for the thesis and submission

#### SEMESTER VI

#### **VFC6B09 DIETETICS**

## Credits: 5

#### Theory: 5hrs / week

## **Objectives:**

To enable students:

1. Gain knowledge on normal and therapeutic diets.

2. Acquire practical experience in planning, preparing and serving of balanced diet in health and diseases.

## Unit I Introduction to Dietetics ( 6hrs)

Role of dietitian, link between health and nutrition

## Unit II Diet Therapy (8hrs)

Principles of Diet Therapy, therapeutic modifications of normal diets and routine hospital diets -

enteral and parenteral feeding

## Unit III Diets in disease conditions (76hours)

- 1. Deficiency diseases
- a. Iron deficiency anemia
- b.Protein- Energy Malnutrition (PEM)
- c. Vitamin A deficiency
- 2. Therapeutic Diets
- a. Febrile conditions TB and Typhoid
- b. Obesity and uderweight.
- c. Diabetes mellitus.
- d. Gastro intestinal disturbances peptic ulcer, constipation and diarrhoea.
- e. Liver diseases Hepatitis and cirrhosis.
- f. Renal disorders Glomerulonephritis and urinary calculi.
- g. Cardiovascular diseases Atherosclerosis, hypertension
- h. Cancer.

## Reference

- 1. F.P. Antia, Clinical Dietetics and Nutrition, III edition, Oxford University Press, Delhi, 1989.
- 2. Sri. Lakshmi B., Dietetics, New Age International (p) Ltd, New Delhi 2002.
- 3. Swaminathan M., Principles of Nutrition and Dietetics.
- 4. Subhangini Joshi, Nutrition and Dietetics

5. Robinson, Corinno H, Basic Nutrition and Diet therapy.

#### Journals

1. Indian Jol of Nutrition and dietetics published by Avinashilingam Deemed University, CBSE.

- 2. The Indian Journal of Medical Research.
- 3. Nutrition, a Quarterly publication of the NIN, Hyderabad.

## **SEMESTER VI**

#### **VFC6BPL6 PRACTICALS VI- - DIETETICS**

#### Credit: 5

#### **Practical: 4hrs / Week**

## **Unit I Deficiency Diseases**

Plan and prepare diets for Deficiency Conditions.

a.Iron deficiency anemia

b. Kwashiorkor

c. Night Blindness

#### **Unit II Therapeutic Diets**

Plan and prepare Diets for Disease Conditions

a.Routine hospital diets

b. Obesity

c.Underweight

- d. Diabetes mellitus
- e. Typhoid
- f. Tuberculosis
- g. Peptic ulcer
- h. Constipation
- i. Cirrhosis
- j. Acute glomerulo nephritis
- k. Renal calculi
- l. Hypertension.
- m. Atherosclerosis

#### Unit III Visits to research institute / Dietary Department.

## **SEMESTER VI**

## VFC6B10 FABRIC CARE AND APPAREL DESIGNING

## Credit: 5

## Theories: 5 Hrs / Week

## **Objectives**

1. To acquire the ability in selecting textiles and constructing garments.

2. To have the ability to know how to care for fabrics

## Unit I Water(6hrs)

Types and methods of softening (caustic soda, Lime soda, zeolite, borax)

## Unit II Study on Laundry(20hrs)

Soaps and detergents, stiffening agents, bleaches, laundry blues, stain removal, dry cleaning.

## Unit III Principles of laundering and storing(10hrs)

Cotton, silk, wool, rayon and synthetics.

## Unit IV Traditional Indian textiles and embroideries of India (20hrs)

Textiles-Dacca muslins, Jamdhani, Baluchari, Patola, Himrus, Bandhini, Kalamakari,

Brocades Chanderi, Paithani, Pitamber, Banaras brocades, Amru

Embroideries- Kashida, Phulkari, Chamba rumal, Chikankari, Kantha)

## Unit V Garment construction(10hrs)

Body measurements, methods of construction, parts and function of sewing machine, steps in preparing fabric before cutting, tools of sewing.

## Unit VI Fashion Elements(12hrs)

Fashion terminologies- fad, style, classic, Haute couture, prêt-A- porter, trend

Fashion cycle

Merchandising- role of a merchandiser

Visual merchandising- Needs and important, elements- areas of display- store interior, store exterior, window display.

## Unit VII Study of human figure(12hrs)

Elements and principles of design applied to apparel design, types of figures, selection of clothing for different figure types

## References

1. Noemia D'souza, Fabric Care, New Age International (P) Ltd., New Delhi.

2. Jannette Jarnow, Kitty G. Dickerson, Inside Fashion Buisiness, Prentice Hall Inc., New Jersey.

3. Essay M., Fashion Marketing, Blackwell Sciences Ltd., London 2002

4. Shailaja D. Naik, Traditional Indian Textiles

5. Metha R.J., Master pieces of Indian Textiles.

6. Abling Bina, Fashion Rendering with Colour, Prentice Hall Inc., Corporation, New Jersey, 2001

7. Martin M.Pergler, Visual merchandising and display, Conde Nast publication, Canada, 2012

#### SEMESTER VI

#### **VFC6BPL7 PRACTICAL VII -FABRIC CARE AND APPAREL DESIGNING**

#### Credits: 5

#### Theory:4 hrs / week

#### PRACTICALS

1. Stitches- basic hand and decorative (embroidery- any 10)

2. Samples of any 2 traditional embroideries of India.

3. Seams and seam finishes (4 types each)

4. Bias and its application- facing- bias and shaped, piping

5. Fullness- gathers, tucks, pleats and darts (2 samples each)

6. Pockets- side and front

7. Collars- Chinese, peter pan, full shirt

8. Plackets- continuous bound, faced and bound, broken kurta

9. Sleeves- set in, kimono, puff and raglan (paper patterns)

10. Fasteners

11. Construction of garments - girl's frock, salwar, kameez and sari blouse

12. Boutique window display- theme based (group activity, report and photo to be maintained in the record)

13. Knowledge of textiles available through industrial visit/ shops or mills

## SEMESTER VI

## **VFC6B11 CONCEPTS IN FAMILY RELATION**

## Credit: 2

Theory: 4hrs / Week

## **Objectives**

- 1. To help them understand family values.
- 2. To orient students for adjustment in marriage.
- 3. To prepare them to play the roles of a wife and mother effectively.
- 4. To make them aware on the laws and rights of women.

## Unit I Marriage(15hrs)

Definition, purpose, functions, selection of spouse, physical, emotional, social, and intellectual maturity needed by the couple, areas of adjustment, factors influencing good marital adjustment, Courtship and Engagement – significance in Indian context.

## Unit II Family(15hrs)

Definition, features, types of family and functions of family, co-habitation, Methods of family planning.

## Unit III Family life cycle (12 hrs)

Stages in the family life cycle- beginning, expanding, contracting- middle age- characteristic and Adjustments (any4), old age- characteristics and problems

## Unit IV Critical family situations(10hrs)

Infidelity, desertion, divorce, alcoholism, death/suicide, disabilities.

## Unit V Deviant sexual behavior(10hrs)

Types- Exhibitionism, Fetishism, Frotteurisme, Pedophilia, sexual masochism, sexual sadism, Transvestic fetishism, Voyeurism, Zoophilia.

## Unit VI Women and law(10hrs)

Laws pertaining to marriage, women rights

## References

1. Devadas R.P. and Jaya N. (1984) A Textbook on Child Development, Mac Millan, India ltd.

- 2. Rao C.N.S. (1990) the Family, S. Chand and Company Ltd., New Delhi.
- 3. Hurlock E.B., Developmental Psychology, Mc Graw Hill
- 4. Devadas R.P. and Jaya N. (1984) A Textbook on Child Development, Mac Millan, India ltD

5. Antony P. D'souze, sex education and personality development, Ustian

publishers,4/7Deshabhandhu, Gupta road, New Delhi.

## **ELECTIVE COURSES**

## SEMESTER VI

## VFC6E01- ENTREPRENEURSHIP MANAGEMENT (Elective)

## Credits: 3

Theory: 3hrs / week

## **Objectives:**

1. Understand the nature of entrepreneurial activities

2. To make students aware of the urgent needs for self employment

3. To develop skills in project identification, preparation of project reports and its implementation.

## Unit-1 Entrepreneurship(9hrs)

Definition, scope, characteristics, factors affecting entrepreneurial development, entrepreneur vs. entrepreneur, classification of entrepreneur, entrepreneur motivation, difference from a manager, role of entrepreneur in economic development.

## Unit Ii Women entrepreneurs( 9hrs)

Definition, present status in India, steps taken for the promotion of women entrepreneurs, problems faced by women entrepreneurs

## Unit III EDP( 9hrs)

Definition, need, Objectives, steps, agencies conducting EDP, Role of government in organizing EDP.

Unit IV Agencies for entrepreneurial support(9hrs)

KITCO, SIDCO, KVIC, DIC, STED, SIDO, NSIC, TCO, SISI, SIDBI Unit V Small scale industries (9hrs)

Definition, types, role in modern economy, steps for starting SSI, problems faced by SSI,

supporting mechanisms - incentives and facilities from government.

## Unit VI Project( 9hrs)

Definition, types, steps in identification, project life cycle, scope and importance, project objectives.

## References

1. Desai, N. Entrepreneurial development- Principles, programmes, Policies(Vol.1)

Formulation Appraisal and Financing (VOL.II) and Programmes and Performance

(VOL III) Himalaya Publishing House, Bombay, 1996

- 2. Vinod A, Entrepreneurship Management
- 3. Winze.M.D Women Entrepreneurs in India, Mital publications, New Delhi 1987.
- 4. Jose Paul, Entrepreunership Development
- 5. Jayan, Entrepreneurship Development.

## SEMESTER VI

## VFC6E02- QUANTITY FOOD PREPARATION TECHNIQUES (Elective)

#### Credits: 3

#### Theory: 3Hours / week

## **Objectives**

To enable students to

1. Understand the objectives of different types of Food Service Institutions.

2. Gain knowledge in menu planning, preparation of recipes in large scale and serving and in food costing.

## Unit I Food Service Industry (6 hrs)

Scope and objectives of hospitality industry, different categories of hotels.

## Unit II Menu planning-The primary control of food service(7hrs)

Types of menu – A la carte, Table d'hote & cyclic, Static, single use, Factors affecting menu planning, menu presentation, cost concepts and menu pricing - Factor method, Prime cost method and Actual cost method.

## Unit III Purchasing (6hrs)

Qualities of an institutional buyer, Purchasing activity, product selection, mode of purchasing, methods of purchasing and purchasing process, purchasing records.

#### Unit IV Receiving and storage (6hrs)

Receiving - delivery methods, delivery procedure and receiving procedure.

Storage -- types (dry storage and cold storage)

## Unit V Standardization of Recipes(7hrs)

Standardization and portion control

## Unit VI Quantity Food production and quality control( 6hrs)

Objectives of food production, methods of production, product standards and product control – HACCP

## Unit VII Distribution and service of Food(7hrs)

Types of food service – waiter service, self service and vending.

## Unit IX Budget( 9hrs)

Steps in budget planning, break even analysis food budget, and food cost control.

## **Related Experience:**

Standardization of 10 selected recipes used in food service Institutions and quantity food production of any two items.

## **REFERENCES**:

1. Mohini Sethi and Surjeet, M. Malhan, "Catering Management an Integrated approach", Wiley Eastern Limited, Mumbai, II edition reprinted, 1996.

2. Marian C. Spears; Food Service Organization; III Edition, Prentice Hall Inc., usa.1995.

3.West and Woods, Introduction to Food Service, Macmillan Publishing Company, New York, 7th edition, 1994.

4. Odder Cesarani and David Fosket, Theory of Catering, Odder and Stoughton, London, xth edition,2003.

5. Odder Cesarani and David Fosket, Food and beverage service, Odder and Stoughton, London, i9x t h edition, 2003.

## SEMESTER VI

## VFC6E03- EXTENSION AND COMMUNICATION (Elective)

## Credit: 3

#### Theory: 3hours / week

## Objectives

To enable the students to:

1. Understand the principles and objectives of extension and community development in our country.

2. Acquire knowledge and skill in using communication techniques.

3. Prepare for higher studies in Extension Education

## Unit I Community Development (27hrs)

## 1. Extension

Meaning, principles, concepts, scope and objectives of extension education in India

## 2. Community development in India

Objectives, principle, philosophy, Types of communities-Rural and Urban, community developmentprogrammes in India-origin and history, Basic rural Institutions-school, panchayat, co-operatives; other institutions- mahila mandals, youth clubs, rural youth programmes-4-H clubs, YFA

## 3. Leadership

Concepts, definition, characteristics, types, selection and training of leaders, methods of identifying professional and lay leaders.

## 4. Programme planning in Extension

Definition, principle, criteria for good programme planning, scope, steps involved in programme development, plan of work, calendar of work, types of evaluation in extension.

## 5. Rural Sociology

Characteristics, comparison between rural and urban society, kudumbasree.

## 6. Agencies and programmes for community development

SWB, urban and rural co-operative banks, District Rural Development Agency, Employment Training and

Poverty Alleviation-IRDP, JRY, TRYSEM, DWCRA, NAEP

## **Unit II Communication (27hrs)**

## 1. Communication

Definition and importance, elements of communication- leagen's model, problems in communication, motivation- methods of motivating people

## 2. Methods of approaching people

Classification of extension teaching methods- types, scope, advantages and limitations of methods.

Individual methods- farm/home visit, office calls, personal letters and result demonstration

Group methods- method demonstration, lecture, meetings, conference

Mass methods - bulletin, circular letters, exhibits and television

## 3. Audio-Visual Aids

Importance of audio-visual aids in communication, cone of experience, factors to be considered in selection, preparation and use of audio visual aids, their merits and demerits

## 4. Home Science Extension Education

Needs and methods, vocationalization of Home Science in India, self-employment and Entrepreneurship through Home Science.

## References

1. O.P.Dahama, O.P.Bhatnagar, Education and communication for Development, 2nd edition, Oxford and IBH

publishing Co., Pvt.Ltd.New Delhi.

2. S.V.Supe. An Introduction to Extension Education, Oxford and IBH publishing Co., Pvt.Ltd.New Delhi.

3. A.Advivi Reddy, Extension Education, Sreelakshmi press, Baptla.

4. Dale.E, Audio Visual methods in teaching, The Dryden Press, New York.

5. Kulendaivel.K, Audio Visual Education, Sri Ramakrishna Mission Vidyalaya, Coimbatore.

6. Dey.S.K, Panchayat Raj, Asia publishing house, Bombay, 1961.

7. Waghmore.S.K, Teaching Extension Education, Prasant publishers, Vallabha, Vidhyanagar, 1980.

# **OPEN COURSES**

## **OPEN COURSES**

## SEMESTER V

# VFC5D01 FOOD SCIENCE AND BASIC COOKERY (OPEN COURSE) Credit: 2 Theory 2hrs / week

## **Objectives**

To enable students to understand the nutritive composition, methods of cooking and preservation of foods.

## Unit I Introduction to food science 4hrs

Functions of food, basic food groups and different methods and objectives of cooking.

## Unit II - Study of foods 20hrs

#### a. Cereals

Nutrient composition general Rice and wheat, effect of heat on starch and protein, role of ingredients in bread making and cake making.

#### **b.** Pulses

Nutritive value and germination, role of pulses in cookery.

#### c. Vegetables

classification and nutritive value

### d. Fruits

nutritive value, browning reaction

#### e. Milk and milk products

Nutrient composition, fermented –(curd butter, ghee) and non fermented milk products (skimmed milk, homogenized milkpasteurised milk), role of milk in cookery.

#### f. Eggs

Nutritive value, characteristics of fresh eggs, role of egg in cookery.

#### g. Meat

Nutrient composition

#### h. Fish

Nutritional composition and fish cookery.

#### i. Fats and Oils

Functions of oils and fats in food, rancidity.

## j. Beverages

Classification, nutritional importance.

## k.sugar cookery

caramelisation, hydrolysis and crystallisation

## **UNIT111**

## Food preservation- principles and methods (12hrs)

## **Related experiences**

i. Record the weight of 1 cup/ 1tbsp/ 1tsp of different types of food stuffs.

Record the ratio of raw to cooked volume of rice, rava and pulses.

Simple preparations using cereals, pulses, milk, vegetables, fruits, egg, meat and fish.

ii. Salad dressing - mayonnaise

iii. Baking – Cake, pizza, cookies (demonstration)

iv. Food preservation – Jam, squash, jelly, pickles.

## References

1. Norman, N. Potter and Hotchkiss, J.H, Food Science, CBSE publishers and Distributers, New Delhi, 1996.

2. Mudambi, S.R. and Rao, S.M. Food Science, New Age International (P) ltd. Bangalore, 1989.

3. Begum, M.P., A Text Book of Food, Nutrition and Dietetics, sterling Publishers Pvt. Ltd., New Delhi, 2001.

4. Srilakshmi, B., Food Science, New Age International Pvt. Ltd., New Delhi.

5. Mudambi, S.R. and Rajagopal M.V., Fundamentals of Food & Nutrition, New Age International (P) Ltd., New Delhi, 1990.

 Swaminathan, M. Handbook of Food and Nutrition, the Bangalore Printing and Publishing Co., Ltd., Bangalore, 2003.

## SEMESTER V

## VFC5D02 INTERIOR DECORATION (OPEN COURSE)

## Credit: 2.

## Theory: 2hrs / Week

# Objectives

1. To make students conscious of aesthetics.

2. To help them understand beauty in design.

3. To develop in them an appreciation of art and design.

## 1. Design (2hrs)

Definition and types- traditional, decorative, modern designs -

## 2. Elements of design( 4hrs)

Line,texture and light- types and effects, space, colour

## 3. Principles of design (4hrs)

Proportion, balance, rhythm, emphasis and harmony.

## 4. Colour theory (4hrs)

Properties, prang's colour system, colour schemes, psychological implication of colours.

## 5. Furniture selection and arrangement ( 4hrs)

Principles of furniture selection and arrangement of furnitures in different rooms. Materials used in furniture construction.

## 6. Window treatments ( 4hrs)

Types- interior and exterior and curtain styles (Priscilla, cottage set, café, swags, cascade, valances, blinds,)

## 7. Flower arrangement (2hrs)

Types (mass, line, mass cum line ,miniature and Japanese arrangement( Ikebana,) and principles.

## 8. Accessories (2hrs)

Classification- functional and decorative.

## 9. Home lighting (4hrs)

Types( local & general), Methods of lighting (direct, indirect and semi direct), Sources of lighting (Incandescent, fluorescent, structural and portable lamps), merits and demerits of incandescent bulbs and fluorescent tubes.

## 10. House (6hrs)

Functions, Principles of planning a house.

## 11. Kitchen (3hrs)

Types (L shaped, U shaped, H shaped ,Island kitchens and one wall). s. Kitchen work triangle. **Related experience** \_ Types of design-decorative, traditional and modern

- \_ Elements of design-applications
- \_ Principles of design-illustrations
- \_ Colour wheel
- \_ Colour schemes
- \_ Curtain styles
- \_ Accessories
- \_ Flower arrangement

## References

1. Nickel, P and Dorsey, J.M. Management in family living, Wiley Eastern Private Ltd, New Delhi, 1976

- 2. Gross, I.M & Grandall, D.W Management for ModernFamilies, 1973
- 3. Faulkner R & Faulkner S, Inside todays home, HoltRinchartWinston, Newyork
- 4. Rutt.A.H, Home furnishing, Wiley Eastern PrivateLtd, New Delhi
- 5. Varghese.M.A, Ogale, N.N.Sreenivasan, K home Management, New Age International
- 6. Agan.T, The house-its plan & use, J.P.Lippincottcompany, Newyork, 1970

## SEMESTER V

# VFC5D03 TEXTILES AND APPAREL DESIGNING (OPEN COURSE) Credit: 2 Theory:2hrs / week

#### **Objectives**

1. To recognize textile fibers.

- 2. To acquire ability in selecting textiles and constructing garments.
- 3. To develop self employment opportunities.

#### Unit I Fibre, yarn, theory and fabric construction (6hrs)

Definition, types, spinning, loom, weaving.

#### Unit II Weaves- Basic weaves and their variations(10hrs)

Novelty weaves- types, pile, leno, lappet, swivel, dobby, jacquard, double cloth, cut spot, continuous weave, crepe.

#### **Unit III Fashion( 4hrs)**

Definition, fashion cycle, fashion trends in India

#### Unit IV Traditional textiles and embroideries of India. (6hrs)

#### Unit VPrinting and dyeing(10hrs)

Types of dyes, printing methods.

## **Related Experience**

- 1. Stitches- Basic hand and decorative (embroideries- any 10)
- 2. Seams and seam finishes.

- 4. Bias and its application.
- 5. Pockets- Set in, pocket in a seam, hip pocket.
- 6. Collars Chinese, peter pan, full shirt
- 7. Plackets Continuous bound, faced and bound broken kurta.
- 9. Demonstration of block prints

## References

- 1. Hollen and Saddler; Textiles, Maxmillan.
- 2. Sushama Gupta, Neeru Garg, Renu Saini, Textbook of clothing and textiles, Kalyani publishers, Ludhiana.
- 3. Shailaja D Naik, Traditional Indian Textiles.
- 4. Essay M, Fashion Marketing, Blackwell Sciences Ltd., London.
- 5. Mary Mathews, Practical Cl

# MODEL QUESTION PAPER

## MODEL QUESTION PAPER

## FIRST SEMESTER B Sc DEGREE EXAMINATION, (CUCBCSS-UG)

Core Course- Family and Community science

VFC1BO1- Fundamentals of Nutrition

Time: 3 Hours

Maximum Marks: 80

## Part A

Answer all questions in one word/ sentence. Each question carries 1 mark

- 1. Name one macronutrient
- 2. Expand NTD
- 3. Give one example for high biological value protein
- 4. Niacin deficiency is lead to -----
- 5. Beauty vitamin is known as ------
- 6. Normal range of BMI
- 7. Oxidation of fat is known as-----
- 8. Sugar present in milk
- 9. ----- is the visual purple photosensitive pigment of rod cells of retina
- 10. ----- is an example of PUFA

(10x1=10 Marks)

## Part B

#### Short answer questions.

Answer any ten questions. Each question carries 2 marks

- 11. List out all essential amino acids
- 12. Give a note on polysaccharides
- 13. Symptoms of Kwashiorkor
- 14. Explain the role of PUFA in human body
- 15. Define EFA. Mention the names.
- 16. Define Reference Man
- 17. What is SDA of food
- 18. What are the Factors affecting Calcium Absorption
- 19. What are goiterogenic substances
- 20. What is RDA
- 21. Define Nutrition
- 22. What are the best protein rich foods and its requirement for different age groups

## Part C

## Answer any five questions in a paragraph Each question carries 6 marks

- 23. Give a note on Classification of food
- 24. Explain the Digestion of Carbohydrates
- 25. Explain functions of Vitamin C
- 26. Write a note on the role of pancreas in digestion
- 27. Write a note on Function s of Fat
- 28. Explain PEM and its treatment
- 29. Explain anemia and its types
- 30. Explain deficiency symptoms of Thiamin

(5x6=30 Marks)

#### Part D (Essay Questions)

Answer any two Questions.

Each question carries 10 marks.

- 31. Define BMR. Explain the factors affecting BMR.
- 32. Describe the metabolism of Carbohydrate.
- 33. Explain in detail about functions ,sources and deficiency of Vitamin A
- 34. Functions of water and water balance in our body.

#### SECOND SEMESTER B Sc DEGREE EXAMINATION,

#### (CUCBCSS-UG)

#### Core Course- Family and Community science

#### VFC2B02 -HUMAN DEVELOPMENT

Time: 3Hours

Maximum marks : 80

#### Part A

Answer all questions in one word/ sentence.

Each question carries 1 mark.

- 1. The care given to pregnant women is ......
- 2. The period of zygote also called ......
- 3. Full form of I.C.D.S
- 4. Play which is a type of make believe play
- 5. Who put forward Surplus theory
- 6. How much time a new born sleeps
- 7. Age of adolescent period can
- 8. Outer part of embryo is called ......
- 9. From which week mother can feel the movement of the foetus?
- 10. one sign of pregnancy is .....

(10x1=10 Marks)

#### Part B

Short answer questions.

Answer any ten questions. Each question carries 2 marks

- 11. Medical care during pregnancy
- 12. Appearance of new born
- 13. Hemorrhoids
- 14. Tubal pregnancy
- 15. Define I.Q.
- 16. Define juvenile delinquency
- 17. Define gifted children
- 18. Characteristics of emotionally challenged children
- 19. Solitary play
- 20. Explain recapitulation theory

21. What is constructive play

22. What are the adjustments of neonate.

(10x2=20 Marks)

#### Part C

Answer any five questions in a paragraph. Each question carries 6 marks

- 23. Complication during pregnancy
- 24. Sensory abilities of new born
- 25. Factors influencing pre-natal development
- 26. Enlist any four principles of growth and development
- 27. Explain objectives of play
- 28. What are the different types of play?
- 29. Types of pre- school
- 30. Adolescent is a period of storm and stress. Why?

(5x6=30 Marks)

#### Part D (Essay Questions)

Answer any two Questions. Each question carries 10 marks

- 31. Discuss the various factors affecting growth and development
- 32. Characteristics of adolescents
- 33. Explain exceptional children under the following heading 1. Classification 2. Causes of mentally retardation 3. Prevention of mentally retardation 4. Care of mental retardation 5. Care of gifted children.
- 34. Explain stages of pre-natal development

(2x10=20)

#### THIRD SEMESTER B Sc DEGREE EXAMINATION,

#### (CUCBCSS-UG)

#### Core Course- Family and Community science

#### VFC3B03 - RESEARCH METHODOLOGY AND BIOINFORMATICS

Time : 3 Hours

#### Maximum Marks: 80

#### Part A

Answer all questions in one word/ sentence.

#### Each question carries 1 mark.

- 1. There are ----- types of sampling
- 2. The structured set of questions usually send by -----
- 3. The areas used in bioinformatics to process biological data include computer science, maths, and -----
- 4. Collecting data in a systematic and aligned way is called------
- 5. ------ is one which changes in relationship to changes in another field
- 6. Libraries of life science information are called------
- 7. The research aims at finding a solution for an immediate problem facing a society
- 8. Explanation of BLAST IS -----
- 9. A tool used for collecting data when large samples are desired
- 10. The method of data collection from each and every unit of the population

(10x1=10 marks)

#### Part B

Short answer questions.

Answer any ten questions.

Each question carries 2 marks.

- 11. Define applied research
- 12. What is meant by dependent variable
- 13. Briefly explain random sampling
- 14. What are the steps to be remembered in preparing a questionaire
- 15. What is meant by hypothesis
- 16. List the qualities of a good research
- 17. Define bioinformatics
- 18. Write on EMBL
- 19. What are proteomics and genomics?

- 20. What is meant by data base?
- 21. What is genbank?
- 22. Write a note on sequence allignment

(10x2=20 Marks)

#### Part C

## Answer any five questions in a paragraph Each question carries 6 marks

- 23. Write a note on experimental design
- 24. Give a short note on action research
- 25. Explain briefly observations and its types
- 26. Write merits and demerits of sampling
- 27. Explain nucleotide sequence data bases
- 28. Explain reporting
- 29. Write a note on data base search engines
- 30. Write data bases for human resources

(5x6=30 Marks)

#### Part D (Essay Questions)

Answer any two Questions.

Each question carries 10 marks.

- 31. Explain scope of bioinformatics in different fields
- 32. Define research. Explain the types of research
- 33. Write about all important concepts relating to research design
- 34. Explain key bio sequences in molecular biology

## FOURTH SEMESTER B Sc DEGREE EXAMINATION

## (CUCBCSS-UG)

#### Core Course- Family and Community science

## VFC4BO4- FOOD SCIENCE

Time : 3 Hours

Maximum Marks: 80

#### Part A

Answer all questions in one word/ sentence.

Each question carries 1 mark.

- 1. A milk protein is -----
- 2. A water soluble pigment ------
- 3. ----- is an effect of dry heat on cereals
- 4. ------ -s an example for EFA
- 5. Fondant and fudge are examples for for ----- candies
- 6. The natural enzyme in meat that helps in meat tenderization is ------
- 7. Building blocks of protein is ------
- 8. Thermal breakdown of fat is ------
- 9. The formation of dark greenish discoloration in hardboiled egg is due to ----- formation
- 10. At 170<sup>°</sup>C sugar converts into ------

(10x1=10 Marks)

#### Part B

Short answer questions.

Answer any ten questions.

Each question carries 2 marks.

- 11. Write components of starch
- 12. Explain EFA
- 13. Briefly explain Tenderisation of meat
- 14. What are the different pigments present in vegetables and its effect on cooking
- 15. Explain Food groups
- 16. Define gelatinization
- 17. Explain food pyramid
- 18. Explain different methods of cooking
- 19. Write on crystallization

- 20. Explain nutritional significance of Fish
- 21. What are the different methods to determine the quality of egg?
- 22. What is meant by EFA

(10x2=20 Marks)

#### Part C

## Answer any five questions in a paragraph Each question carries 6 marks

- 23. Write a note on Stages of sugar cookery
- 24. Give a short note on rancidity
- 25. Explain briefly post mortem changes
- 26. Write the merits of germination
- 27. Explain the factors affecting gluten formation
- 28. Explain parboiling and its advantages and disadvantages
- 29. Explain Types of browning
- 30. Explain Antinutritional Factors present in Pulses

(5x6=30 Marks)

#### Part D (Essay Questions)

Answer any two Questions.

Each question carries 10 marks.

- 31. Explain the structure of a cereal grain with diagram
- 32. Different methods of food preservation
- 33. Draw the structure of an egg and its nutritional significance
- 34. Explain adulteration. Explain any five tests to find out adulterants in food

#### FIFTH SEMESTER B Sc DEGREE EXAMINATION

#### (CUCBCSS-UG)

#### Core Course- Family and Community science

#### VFC5BO5 – HUMAN PHYSIOLOGY AND MICROBIOLOGY

Time : 3Hours

Maximum Marks: 80

#### Part A

#### Answer all questions in one word/ sentence.

Each question carries 1 mark.

- 1. Universal Blood Donor
- 2. Cup shaped structure of Nephron is called ------
- 3. Which Hormone helps in the reabsorption of water from renal tubule
- 4. ----- is called Pacemaker of Heart
- 5. ----- is otherwise called Succus entericus
- 6. Name the disease that MMR vaccination protects against
- 7. Typhoid fever is caused by ------
- 8. Penicillin is produced from the organism called ------
- 9. Destruction of microbes by the use of chemicals is known as -----
- 10. The organism that causes mouldyness in bread is ------

(10x1=10 Marks)

#### Part B

Short answer questions.

Answer any ten questions.

Each question carries 2 marks.

- 11. List out the functions of Vagina
- 12. Give a note on salivary gland
- 13. Draw the waves of normal ECG
- 14. Explain the role of Aldosterone in human body
- 15. List out the composition of urine
- 16. Erythroblastosis fetalis

17. What is lag phase

- 18. Define a bacteriophage
- 19. What is herd immunity
- 20. What is endemic disease
- 21. Write on food spoilage
- 22. What are the methods and organism used for food fermentation (10

(10x2=20 Marks)

#### Part C

## Answer any five questions in a paragraph

Each question carries 6 marks

- 23. Give a note on uterine cycle
- 24. Explain the Movement of Gastro intestinal tract
- 25. Explain any six properties if cardiac muscles
- 26. What is Micturition, explain its reflex?
- 27. Write a note on stages of bacterial growth
- 28. Explain economic importance of yeast
- 29. Explain viral diseases in brief
- 30. Explain immunization schedule

(5x6=30 Marks)

#### Part D (Essay Questions)

Answer any two Questions.

Each question carries 10 marks.

- 31. Pituitary is known as Maser gland, Elaborate.
- 32. Describe Cardiac Cycle and Heart Sound.
- 33. Explain in detail about food borne infection. Discuss the methods of control and prevention
- 34. Write an essay on the control and destruction of bacteria

#### FIFTH SEMESTER B Sc DEGREE EXAMINATION, (CUCBCSS-UG)

#### Core Course- Family and Community science

#### VFC5BO6 – DIET IN HEALTH

Time : 3Hours

Maximum Marks: 80

#### Part A

#### Answer all questions in one word/ sentence.

#### Each question carries 1 mark.

- 1. Colostrum is rich in ------
- 2. Requirement of iron during pregnancy is ------
- 3. ----- is the hormone which help in let down reflux
- 4. Spina bifida is caused by the deficiency of ------
- 5. Consumption of non nutrient substance in excess amount is ------
- 6. PIH means -----
- 7. Osteoporosis is due to the deficiency of -----
- 8. Pot belly is the symptom of -----
- 9. Energy system dependent on oxygen is ------
- 10. Solid food added to an infant's diet is called------

(10x1=10 Marks)

#### Part B

Short answer questions.

Answer any ten questions.

Each question carries 2 marks.

- 11. Who is ARF?
- 12. What is the menu planning?
- 13. What is IDD?
- 14. Objectives of FAO
- 15. Give the RDA for male computer professional
- 16. Anorexia nervosa
- 17. Balanced diet

- 18. What are lactogogue? Give example
- 19. Define nutritional assessment
- 20. Define weaning
- 21. Why dental carries is common among school children?
- 22. What is carbohydrate loading?

(10x2=20 Marks)

## Part C

## Answer any five questions in a paragraph Each question carries 6 marks

- 23. What are important physiological changes during pregnancy?
- 24. What are the objectives of school lunch programme?
- 25. What is complementary feeding?
- 26. "Obesity is an emerging problem among school children". Why?
- 27. Explain the process of ageing?
- 28. Give nutritional requirements in adults
- 29. What are the immunological advantages of breast milk?
- 30. Explain the role of water for a sport person

(5x6=30 Marks)

## Part D

#### (Essay Questions)

#### Answer any two Questions.

#### Each question carries 10 marks.

- 31. Explain the importants of nutrients in elderly. How can you modify the diet for elderly?
- 32. Bring out the nutritional requirements and nutritional problems of teenagers.
- 33. Explain the reasons for increased nutrient requirement in lactation.
- 34. Discuss in detail the factors affecting menu planning

#### FIFTH SEMESTER B Sc DEGREE EXAMINATION,

#### (CUCBCSS-UG)

#### Core Course- Family and Community science

#### VFC5B07 – FAMILY RESOURCE MANAGEMENT

Time : 3 Hours

Maximum Marks: 80

#### Part A

#### Answer all questions in one word/ sentence.

Each question carries 1 mark.

- 1. An acquired tendencies to respond positively or negatively, favorably or unfavorably to person, objects, ideas or events is ......
- 2. The satisfaction experienced through the use of real income or money is .....
- 3. The incapacity for manual exertion caused by previous exertion
- 4. Name one complimentary colour.
- 5. What one expects to do in a given periods of time indicating the sequence of various activities and the time for each activity.
- 6. Feeling of smallness or bigness which a space or interior elements gives us .....
- 7. A plan for spending and saving within a given income for a definite period is called .....
- 8. The Japanese tradition for growing miniature trees in containers
- 9. The path connecting sink, cooking area and storage
- 10. Name one primary colour.

(10x1=10 Marks)

#### Part B

#### Short answer questions.

Answer any ten questions. Each question carries 2 marks.

- 11. Mention the four dimensions of colour
- 12. Define work simplification
- 13. Enlist two means to optimize satisfaction derived from the utilization of family and community resources quoting examples
- 14. State the advantages of Gantt chart.
- 15. Write a short note on types of income
- 16. Define rhythm and its type

- 17. List out different functions of window treatments.
- 18. What are the steps in management process?
- 19. What is waste management?
- 20. Define time management
- 21. What is ambient lighting?
- 22. Explain work triangle

(10x2=20 Marks)

## Part C

Answer any five questions in a paragraph. Each question carries 6 marks

- 23. What are resources? Differentiate between human and material resources with example.
- 24. Enumerate the qualities of a good Home maker.
- 25. Describe the factors in the selection of a site for house construction.
- 26. State the important of supplementing income with a few examples suitable for low income families.
- 27. Discuss the steps in preparing of time schedule. Prepare a time schedule suitable for an employed home maker.
- 28. Elaborate with illustrations the six curtain styles stating where each one could be applied.
- 29. What are the elements of design?
- 30. List primary and secondary colour.

(5x6=30 Marks)

## Part D (Essay Questions)

Answer any two Questions. Each question carries 10 marks.

- 31. State the important of maintaining household accounts
- 32. Discuss the various steps and factor's to be considered while making time plan
- 33. Explain the type of window treatments with illustration
- 34. Describe the principles of design with suitable illustration (2x10=20 Marks)

#### FIFTH SEMESTER B Sc DEGREE EXAMINATION,

#### (CUCBCSS-UG)

#### Core Course- Family and Community science

#### VFC5B08 – TEXTILE SCIENCE

Time : 3 Hours

Maximum Marks : 80

#### Part A

#### Answer all questions in one word/ sentence.

Each question carries 1 mark.

- 35. Example of novelty yarn
- 36. A fabric made of flax fiber
- 37. Example of synthetic fiber
- 38. Yarn made by twisting two single yarns.
- 39. The lengthwise yarns in a woven fabric.
- 40. A variation of plain weave
- 41. Small geometric designs are produced by weave
- 42. Process of adding colour at the fibre stage
- 43. An example of direct printing
- 44. A finish to improve the luster of a cotton fabric

(10x1=10 Marks)

## Part B

#### Short answer questions.

Answer any ten questions. Each question carries 2 marks.

- 45. What is a regenerated fiber?
- 46. What is a novelty yarn?
- 47. What is plain weave?
- 48. What is bonding?
- 49. Define knitting
- 50. What is the cross section of a cotton fiber
- 51. Define 'fibre'
- 52. Write a note on sanforization

- 53. What is resist printing
- 54. What is spinning?
- 55. Explain napping?
- 56. What is fabric count

(10x2=20 Marks)

#### Part C

Answer any five questions in a paragraph. Each question carries 6 marks

- 57. What is wet spinning?
- 58. Give the identification of rayon and wool
- 59. Write a note on bicomponent and biconstituent yarn
- 60. Write a note on yarn twist
- 61. What is a pile weave?
- 62. Discuss about bleaching and mercerization
- 63. Write a note on ecolabels
- 64. Write a note on rotary printing

(5x6=30 Marks)

## Part D

## (Essay Questions)

Answer any two Questions. Each question carries 10 marks.

- 65. Explain the classification of fibres according to their source
- 66. Write in details about the different finishes used on textile
- 67. Discuss about fancy weave
- 68. Explain in detail about printing

#### FIFTH SEMESTER B Sc DEGREE EXAMINATION,

#### (CUCBCSS-UG)

#### Core Course- Family and Community science

#### VFC5D02 – INTERIOR DECORATION (open course)

Time: 2 hours

Maximum marks: 40

#### Part A

Answer all questions. Each question carries one mark.

- 1. Purple is the compliment of .....
- 2. ..... is a Japanese flower arrangement
- 3. Pink is the .....of the red colour
- 4. ..... lines can create the effect of dignity and formality in interior
- 5. Blue is the shade of .....

(5x1=5 Marks)

#### Part B

#### Answer all questions. Each question carries 2 marks

- 6. Explain Japanese arrangement.
- 7. What is intermediate colour?
- 8. Functional accessories
- 9. What is monochromatic colour scheme?
- 10. What are decorative accessories?

(5x2=10 Marks)

#### Part C

#### Answer any Three. . Each question carries 5 marks

- 11. Explain the type of window treatment?
- 12. What are the material used for flower arrangement?
- 13. Explain rhythm and harmony
- 14. Explain formal and informal balance
- 15. Explain psychological impact of blue colour?

(5x3=15 Marks)

## Part D (essay questions)

Answer any one Question. Each question carries 10 marks.

16. Explain flower arrangement under the following heading

a)Types b) Materials used c) Mass arrangement

- 17. Explain colours with the help of Prang's colour wheel?
- 18. Illustrate the different types of kitchen arrangement and layout

(10 x1=10 Marks)

#### SIXTH SEMESTER B Sc DEGREE EXAMINATION,

#### (CUCBCSS-UG)

Core Course- Family and Community science

VFC6B09 - DIETETICS

Time : 3 Hours

Maximum Marks: 80

## Part A

Answer all questions in one word/ sentence.

Each question carries 1 mark.

- 1. Accumulation of fluid in abdomen is called ------
- 2. Kempeners diet suggested in ------
- 3. GTT is conducted to diagnose ------
- 4. Tuberculosis is caused by ------
- 5. Condition caused by inflammation of glomeruli is ------
- 6. ----- is an example for  $n_{3-}$  fatty acids
- 7. Increased hunger is also known as ------
- 8. BMI is otherwise known as ------
- 9. Pairs patches is a symptom of ------
- 10. ----- is known as good colesterol

(10x1=10 Marks)

#### Part B

Short answer questions. Answer any ten questions. Each question carries 2 marks.

- 11. What is TPN?
- 12. What is GTT?
- 13. What is keraomalacia?
- 14. What are the aetiological factors of type II diabetes?
- 15. State on osmotic diarrhoea
- 16. What is DASH?
- 17. Classify BMI.
- 18. Write on carcinogens
- 19. What are hypocholesterolemic agents?
- 20. What are the metabolic changes of fever?
- 21. What are the preventive measures for constipation?

22. Agents responsible for liver disease

(10x2=20 Marks)

## Part C

Answer any five questions in a paragraph

Each question carries 6 marks

- 23. Explain dietary management of cirrhosis
- 24. Plan a days diet for a person suffering from hypertension and discuss.
- 25. Explain the role of fat in the cause of atherosclerosis
- 26. Describe the type of diet advised for a preschooler child suffering from PEM
- 27. Explain the dietary management for nephritis.
- 28. Elaborate the process of cancer cell formation
- 29. What is enteral nutrition? What are the conditions in which enteral nutrition is suggested?
- 30. Write any five code of ethics for a dietician

(5x6=30 Marks)

## Part D (Essay Questions)

Answer any two Questions.

Each question carries 10 marks.

- 31. Explain symptoms and dietary management of peptic ulcer
- 32. Explain the symptoms, types and complications of diabetes mellitus
- 33. Elaborate on causes, complications and dietary management of obesity
- 34. What is cancer? What are the dietary modifications required while treating cancer patients? (2x10=20 Marks)

## SIXTH SEMESTER B Sc DEGREE EXAMINATION,

## (CUCBCSS-UG)

## Core Course- Family and Community science

## VFC6B10 – FABRIC CARE AND APPAREL DESIGNING

Time : Three Hours

Maximum Marks: 80

#### Part A

#### Answer all questions in one word/ sentence.

#### Each question carries 1 mark.

- 1. Give the name of any one stain removal agent.
- 2. Name one oxidizing Bleaching agent
- 3. Cause of temporary hardness
- 4. The measurement taken from side waist to center waist
- 5. The part of a sewing machine which help to move the fabric while stitching
- 6. Tool used for cutting garment
- 7. Name one Stiffening agent
- 8. Name one traditional embroidery of Bengal
- 9. Javalee water is an example of which bleach?
- 10. Name one traditional textiles of India

(10x1=10 Marks)

## Part B

#### Short answer questions.

Answer any ten questions. Each question carries 2 marks.

- 11. Explain the causes of permanent hardness,
- 12. Define fashion cycle
- 13. Why does thread break during sewing?
- 14. What kind of clothes will you select for a very thin figure?
- 15. What are the different stages of fashion cycle?
- 16. What is visual merchandising?
- 17. What is Phulkari?
- 18. What is the importance of correcting stitch tension?
- 19. What are the basic requirement of sewing machine?

- 20. Write a note on bleaches
- 21. Four type of figure
- 22. Explain soft water

(10x2=20 Marks)

## Part C

Answer any five questions in a paragraph. Each question carries 6 marks

- 23. What are the principles used during laundering of cotton fabric?
- 24. What is detergent?
- 25. What are stiffening agent? How it is applied in fabric?
- 26. How can lipstick stain be removed from the cotton fabric?
- 27. How will launder a woolen sweater?
- 28. What are optical brighters?
- 29. write a note on tools used in sewing
- 30. what are the steps in fabric before cutting?

(5x6=30 Marks)

#### Part D (Essay Questions)

Answer any two Questions. Each question carries 10 marks.

- 31. How will you select clothing for a following figure? Illustrate
- (a) A short figure (b) Tall and stout figure (c) A plump figure
- 32. Write a note on:
  - (a) Kantha of Bnegal (b) Phulkari of Punjab (c)kalamkari
- 33. Describe how following stains can be removed
  - (a) Blood stain (b) coffee stain (c)iron rust (d) mildew
- 34. Explain the laundering and storing principles for wool and rayon

#### SIXTH SEMESTER B Sc DEGREE EXAMINATION,

#### (CUCBCSS-UG)

#### Core Course- Family and Community science

#### VFC6B11 -CONCEPTS IN FAMILY RELATION

Time : 3 Hours

#### Maximum Marks: 80

#### Part A

#### Answer all questions in one word/ sentence.

#### Each question carries 1 mark.

- 1 Basic unit of society.
- 2 The legal marriage age of girl and boy in India
- 3 When a male marries more than one female.
- 4 Willful leaving of mate
- 5 Name one type of permanent family planning method
- 6 One man one wife in marriage
- 7 The ability to perceive the feeling of others
- 8 Legal dissolution of marriage
- 9 A family in which the authority rests in women
- 10 Functionally inadequate home

(10x1=10 Marks)

#### Part B

Short answer questions.

Answer any ten questions. Each question carries 2 marks.

- 11 Define family
- 12 Define marriage
- 13 Stages of family cycle
- 14 Alcoholism
- 15 Courtship
- 16 Extended family
- 17 Contraception
- 18 Infidelity
- 19 Family planning

- 20 Single parent family
- 21 Polyandry
- 22 Dowry prohibition act

(10x2=20 Marks)

## Part C

Answer any five questions in a paragraph. Each question carries 6 marks

- 23 Differentiate between desertion and divorce?
- 24 comment on contemporary issues in family life
- 25 What are the major objectives of marriage?
- 26 Discuss the merits and demerits of nuclear family
- 27 Give your views on mate selection
- 28 Enumerate the functions of marriage
- 29 Reasons for singlehood
- 30 Explain briefly the different types of fmilies

(5x6=30 Marks)

## Part D (Essay Questions)

Answer any two Questions. Each question carries 10 marks.

- 31 Enumerate the major functions of family
- 32 Explain different types of deviant sexual behaviors
- 33 Explain the different stages in family life cycle with example
- 34 Explain the various critical family situations that occur in the family

#### SIXTH SEMESTER B Sc DEGREE EXAMINATION, (CUCBCSS-UG)

#### Core Course- Family and Community science

VFC6E02- QUANTITY FOOD PREPARATION TEXCHNIQUES (Elective)

Time:3 Hours

#### Maximum Marks: 80

#### Part A

Answer all questions in one word.

#### Each question carries 1 mark.

- 1. Name the caters there preparation and Service of food is in the same place
- 2. Name the menu which is Same in all days
- 3. ----- is the list of all records created/received and maintained by an organization
- 4. Temperature for Refrigerator storage is ------
- 5. Expand FPO
- 6. ----- is otherwise known as Pay roll cost
- 7. ----- is the repeated testing of recipe
- 8. Cafeteria is an example for ----- type of food service
- 9. -----caters provide only food service
- 10. Expand HACCP

(10x1=10 Marks)

## Part B

Short answer questions.

Answer any ten questions.

Each question carries 2 marks.

- 11. Explain transport catering
- 12. Write on menu presentation
- 13. Give a note on Purchase order
- 14. Write about dry storage
- 15. List out portion control equipments
- 16. List out Objectives of food production
- 17. Give a note on Agmark
- 18. What is vending?
- 19. What is over head cost?
- 20. Explain delivery procedure
- 21. Give a short note on mode of purchase
- 22. What is cyclic menus?

(10x2=20 Marks)

#### Part C

## Answer any five questions in a paragraph Each question carries 6 marks

- 23. Give a note on Catering segments
- 24. Explain the difference between A la carte and Table d' hote menu
- 25. Detail the different methods of food purchasing
- 26. Explain different types of cold storage method
- 27. Give a note on methods of food production
- 28. Explain the factors responsible for losses in food cost
- 29. Explain the behavior of food cost
- 30. Explain different types of Hotels

(5x6=30 Marks)

## Part D (Essay Questions)

Answer any two Questions.

Each question carries 10 marks.

- 31. Explain Menu under the following headings
  - a) Factors affecting menu planning b) Menu Pricing
- 32. Elaborate the styles of service
- 33. Explain steps in budgeting and BEA
- 34. Define standardization and explain its steps