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FACULTY OF SCIENCE
B.Sc. (III-Semester) Examination
NUTRITION AND DIETETICS / FOOD AND NUTRITION
Paper-III
Normal and Therapeutic Nutrition

Time : 3 Hours]

[Max. Marks : 80

Section A - (Marks: 4 x 10 = 40)

Answer any **four** questions.

1. Write brief notes on the following:
 - a) Lactation.
 - b) RDA (Recommended Dietary Allowances)
2. What are the nutritional requirements for on adult man and woman? Explain.
3. Write brief notes on the following:
 - a) Weaning
 - b) Geriatrics
4. What are the nutritional requirements for Infancy? Explain the importance of Breastfeeding.
5. Write brief notes on the following:
 - a) Special feeding methods
 - b) Dietary supplements
6. Describe the symptoms of Tuberculosis and explain its dietary principles and dietary modifications.
7. Write brief notes on the following:
 - a) Galactosemia
 - b) Lactose Intolerance
8. Define 'Food Allergy'. Explain its clinical Signs and Symptoms.

Section B - (Marks: 2 x 20 = 40)

Answer any **two** questions.

9. Write the Physiological changes, during Pregnancy with nutritional requirements and Pregnancy complications.
10. What are the nutritional requirements? Explain the School lunch programmes for Pre-Schoolers and School Going Child.
11. Define 'fever'. Describe its causes, types, symptoms and principles of diet with dietary modifications.
12. Describe the symptoms and dietary management. For inborn errors of metabolism with reference to Pheny/Ketonuria.

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FACULTY OF SCIENCE

B.Sc. (IV Semester) Examination

NUTRITION & DIETETICS/FOOD AND NUTRITION

Paper IV

(Diet and Disease)

Time : 3 Hours]

[Max. Marks : 80

Section A – (Marks: 4 × 10 = 40)

Answer any **four** questions.

1. Write about the measurement of energy by direct and indirect calorimetry.
2. Define underweight and add a note on causes, principles of the diet.
3. What is diabetes? Explain about the causes, risk factors, signs, symptoms and complications of Type 2 diabetes mellitus (T₂DM).
4. Define Atherosclerosis and write a short note on causes, risk factors, signs, symptoms, complications and dietary modifications.
5. Define diarrhoea and write about the causes, types, symptoms, complications and dietary modifications of diarrhoea.
6. Write about the causes, types, symptoms, complications and dietary modifications of constipation.
7. What is Hepatitis and add a note on causes, types, symptoms, complications and dietary modifications of Hepatitis?
8. Explain about the causes, symptoms, complications and dietary modifications of Gall stones.

Section B – (Marks: 2 × 20 = 40)

Answer any **two** questions.

9. Define obesity and write a short note on causes, assessment (BMI), Body weight, Brokas Index) complications, principles of the diet.
10. Describe the Type-1 diabetes mellitus (T₁DM) risk factors, signs, symptoms, complications and dietary metabolism.
11. What is peptic ulcer? Explain the causes, types, symptoms, complications and dietary modifications, foods to be included and to be avoided.
12. What is Pancreatitis? Write about the causes, types, symptoms, complications and dietary modifications, foods to be included and to be avoided.

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FACULTY OF SCIENCE
B.Sc. (V Semester) Examination
FOOD AND NUTRITION/NUTRITION DIETETICS
Paper V(a)
(Basic Dietetics)

Time : 3 Hours]

[Max. Marks : 80

Section A – (Marks: $8 \times 4 = 32$)

1. Answer any **eight** questions:
- (a) Nutritional assessment
 - (b) Consistency and texture modification
 - (c) Food labelling
 - (d) Diet for constipation and diarrhoea.
 - (e) Diet for obesity
 - (f) Diet for Nephritis
 - (g) Nutrition in AIDS
 - (h) Nutrition in kidney diseases
 - (i) Nutrition for allergy
 - (j) Nutrition in alcoholism
 - (k) Psychology of feeding the patient
 - (l) Dietary counselling.

Section B – (Marks: $4 \times 12 = 48$)

Answer all questions.

2. (a) Explain Nutritional Care Process.
Or
~~(b) Explain Nutrition and Weight Management.~~
3. (a) Explain the diet for renal disorders.
Or
~~(b) Explain the diet for metabolic disorders.~~
4. ~~(a) Explain in detail about diet and nutrition for cancer patients.~~
Or
~~(b) Explain nutrition in burns and surgery.~~
5. (a) Explain the feeding in infants and children.
Or
~~(b) Explain the nutrition in addictive behaviour (in anorexia, nervosa and bulimia).~~

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FACULTY OF SCIENCE

B.Sc. (VI Semester) Examination

NUTRITION AND DIETICS / FOOD AND NUTRITION

Paper VI (A)

(Public Health Nutrition)

[Max. Marks : 80]

Time : 3 Hours]

Section A – (Marks: $8 \times 4 = 32$)

Answer all questions.

1. Attempt any **eight** questions in short-form:

- (a) Nutrition
- (b) Deficiency of Vitamin – D
- (c) Deficiency of Iron
- (d) Demography
- (e) Midday meal programs
- (f) UNICEF
- (g) Present scenario of Malnutrition
- (h) Anthropometry
- (i) Strategies of Malnutrition
- (j) Food balance sheets
- (k) Nutrition visual aids
- (l) Food Fortification.

Section B – (Marks: $4 \times 12 = 48$)

Answer all questions.

2. (a) Explain about the definition and scope of public health and nutrition. And add a note on productivity and development.
Or
(b) What are vitamins? Explain about the fat soluble vitamins.
3. (a) Describe the key components of epidemiology and demography.
Or
 (b) Explain about the community nutrition agencies: (i) UNICEF, (ii) CFTRI.
4. (a) Write about the implications and strategies of Malnutrition.
Or
(b) Write a note on the causes of Malnutrition.
5. (a) Explain about the objectives of food fortification and food fortification programmes in India.
Or
 (b) Explain the Research methods specific to nutrition.

FACULTY OF SCIENCE
B.Sc. (II-Semester) (CBCS) Examination
NUTRITION & DIETETICS / FOOD & NUTRITION

(Common)

Paper-II

Nutritional Biochemistry and Human Physiology

Time: 3 Hours]

[Max. Marks : 80

SECTION –A

Answer any **FOUR** Questions (Marks: 4 x 10 = 40)

1. Explain in detail the process of glycolysis.
2. Explain the urea cycle.
3. Give an account of macro and micro minerals.
4. Describe the detail about of fat soluble and water soluble vitamins.
5. Describe the ultra structure of animal cell.
6. Give an account of the secretions of pituitary gland.
7. What are the major transport mechanisms for carbon-di oxide?
8. Explain the functions of skin.

SECTION –B

Answer any **TWO** Questions (Marks: 2 x 20 = 40)

9. Write the essay on classifications and functions of proteins.
10. Define Enzymes. Explain detail about the structure, properties and action mechanism of enzymes.
11. Describe the structure and functions of Human heart.
12. Give an account of structure and functions of nephron and explain the physiology of urine formation.

FACULTY OF SCIENCE
B.SC(I Yr.) I SEMESTER (CBCS) EXAMINATION, NOV/DEC 2019
NUTRITION AND DIETETICS
INTRODUCTION TO FOOD AND NUTRITION

[MAX.MARKS:80]

TIME: 3 HRS]

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SECTION-A (8 X 4 =32Marks)

Answer any EIGHT questions

- a Define nutrition and nutrients with examples.
- b Write about stages of jaggery cookery.
- c Write the composition of millets.
- d List the methods for prevention of rancidity.
- e Write about the anti-nutritional factors and toxins found in legumes, nuts and oilseeds.
- f Write the functions of oils in foods.
- g Write the classification of fruits with examples.
- h Explain the principle involved in dehydration along with different methods of dehydration.
- i Explain the factors affecting storage of vegetables.
- j Explain the classification of fishes with examples.
- k Explain the composition of eggs.
- l Write the nutritive value of milk.

SECTION-B(4 X 12=48Marks)

Answer all questions

- 2 a Describe the Nutrient losses occurring in cereals and millets during processing.
OR
- b Discuss in detail the stages of sugar cookery and applications in foods.
- 3 a Discuss the chemical properties of fats and oils
OR
- b Describe the Nutrient losses occurring in pulses and legumes during processing.
- 4 a Discuss the mechanism of enzymic browning in fruits and vegetables.
OR
- b Explain the changes occurring in fruits and vegetables during storage.
- 5 a Describe in detail the non-fermented milk products.
OR
- b Discuss in detail the incidental food adulteration.

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FACULTY OF SCIENCE
B.Sc. (II Semester) Examination
NUTRITION & DIETETICS/FOOD & NUTRITION
(Common)
(Nutritional Biochemistry and Human Physiology)
Paper II

Time : 3 Hours]

[Max. Mark

Section A – (Marks: $4 \times 10 = 40$)

Answer any four questions.

1. Classify Carbohydrates according to their structures. Write the effects of too high and too low intake of carbohydrates.
2. Describe the structure and functions of Macro nutrients.
3. Write a detailed account on water and electrolyte balance in the human body.
4. Define enzymes. Explain nomenclature and IUBMB classification with suitable examples.
5. Mention the physiological factors affecting blood pressure.
6. Write the classification and functions of nervous system.
7. Write the parts and functions of GI tract.
8. Explain the role of skin.

Section B – (Marks: $2 \times 20 = 40$)

Answer any two questions.

9. Give an account of β -oxidation of saturated even carbon fatty acid (Palmitic acid) along with its energetic and regulation.
 10. Explain the following:
 - (a) Deficiency symptoms of fat soluble vitamins
 - (b) Deficiency symptoms of macro minerals.
 11. Detailed explanation of coagulation and blood groups.
 12. Describe the respiratory system.
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FACULTY OF SCIENCE
B.Sc. (V Semester) Examination
FOOD AND NUTRITION / NUTRITION AND DIETETICS
Paper V (a)
(Basic Dietetics)

Time: 3 Hours]

[Max. Marks: 80

Answer all questions.

Section A - (Marks: 8 × 4 = 32)

1. Answer any eight questions:

- (a) Nutritional Labelling
- (b) Nutritional care process
- (c) Nutrition and weight management
- (d) Diet for renal disorder
- (e) Diet for cardiovascular disorder
- (f) Diet for Diabetes mellitus
- (g) Nutrition for burns and surgery
- (h) Nutrition for cancer patients
- (i) Nutrition for allergy
- (j) Psychology of feeding the patient
- (k) Feeding up infants
- (l) Nutrition in anorexia

Section B - (Marks: 4 × 12 = 48)

Answer all questions.

2. (a) Explain the concept of basic dietetics and nutritional assessment.
Or
(b) Explain nutrient modifications in detail.

[P.T.O.]

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3. (a) Explain the diets for gastrointestinal disorders.
Or
(b) Explain the diet for cardiovascular disorders.
4. (a) Explain diet and nutrition in kidney diseases.
Or
(b) Explain nutrition in immune system dysfunction.
5. (a) Explain the nutrition in addictive behaviours (Alcoholism, Bulimia, Neuroza).
Or
(b) Explain nutrition in diet clinics, counseling and follow-up.

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FACULTY OF SCIENCE

B.Sc. (II Semester) Examination

FOOD & NUTRITION / NUTRITION AND DIETICS

Paper II

(Nutritional Biochemistry and Human Physiology)

Time : 3 Hours]

[Max. Marks : 80

Section A - (Marks: $8 \times 4 = 32$)

1. Attempt any **eight** questions in short-form:
- (a) Gluconeogenesis
 - ~~(b)~~ Classification of lipids
 - (c) Urea cycle
 - ~~(d)~~ Deficiency of Vitamin - A
 - ~~(e)~~ Deficiency of Calcium (Ca)
 - ~~(f)~~ Classification of Enzymes
 - ~~(g)~~ Structure of cell membrane
 - ~~(h)~~ Blood groups
 - (i) STH Hormone (Somato trophic hormone)
 - (j) Action potential
 - ~~(k)~~ Definition of Digestion and Absorption
 - ~~(l)~~ Functions of skin.

Section B - (Marks: $4 \times 12 = 48$)

Answer all questions.

2. (a) Describe the Glycolysis cycle.
Or
(b) Write about the classification of amino acids and add a note on deamination and transamination and urea cycle.
3. ~~(a)~~ What are vitamins and explain about the water soluble vitamins?
Or
(b) Explain about the classification, sources, properties of enzymes and add a note on mechanism of enzyme action.
4. ~~(a)~~ Explain the classification and types of nerves and add a note on synaptic transmission in nervous system.
Or
~~(b)~~ Describe the pituitary gland hormones.
5. (a) Describe the structure and functions of kidneys and add a note on formation of urine.
Or
~~(b)~~ Explain the structure and functions of skin and add a note on the role in the regulation of body temperature.

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FACULTY OF SCIENCE
B.Sc. (I Semester) Examination
FOOD & NUTRITION
Paper I

(Introduction to Foods & Nutrition)

Time : 3 Hours]

[Max. Marks : 80

Section A – (Marks: $4 \times 10 = 40$)

Answer any **four** questions.

1. Write a brief note on the following:
 - (a) Types of sugars.
 - (b) Balanced diet.
2. Describe the composition, nutritive value of cereals and millets.
3. Write a brief note on the following:
 - (a) Importance of germination and malting
 - (b) Nutritive value of nuts
4. Explain the types and prevention of rancidity of oils.
5. Write a brief note on the following:
 - (a) Fruits storage and ripening.
 - (b) Food preservation.
6. Explain the Enzymatic browning and its prevention.
7. Write a brief note on the following:
 - (a) Food adulteration
 - (b) Fermented milk products.
8. Describe the composition and nutritive value of Egg.

Section B – (Marks: $2 \times 20 = 40$)

Answer any **two** questions.

9. What are food groups? Explain them based on functions, origin and nutritive value.
10. Describe the composition, nutritive value, physical, chemical properties and functions of fats and oils.
11. Write the composition, nutritive value of the vegetables. Explain the loss of nutrients during cooking.
12. Describe the classification, composition and nutritive value of fish.

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FACULTY OF SCIENCE

B.Sc. (III Semester) Examination

NORMAL AND PREVENTIVE NUTRITION

Paper III

(Common for Nutrition & Dietetics / Food & Nutrition)

Time: 3 Hours]

[Max. Marks: 80

Section A – (Marks: $8 \times 4 = 32$)

Attempt any **eight** questions in short-form:

- (a) Factors affecting on RDA. •
- (b) Complications of Pregnancy. •
- (c) Nutritional requirements in Adults. •
- (d) Importance of breast feeding..
- (e) Nutritional requirements in school going childrens. •
- (f) Eating disorders. •
- (g) Parental feeding.
- (h) Typhoid causative organism and symptoms.
- (i) Therapeutic Nutrition diet therapy.
- (j) Phenylketonuria.
- (k) Food Allergy.
- (l) Lactose intolerance.

Section B – (Marks: $4 \times 12 = 48$)

Answer all questions.

(a) Explain the steps involved in planning a meal.

Or

(b) Describe the physiological changes and increase in Nutritional requirement in Pregnancy.

[P.T.O.]

3. (a) Explain about the nutritional requirements and physiological changes and dietary modifications in geriatrics.

Or

- (b) Explain about the nutritional requirements in infancy and add a note on importance of breast feeding.

4. (a) Describe the External and Internal feeding.

Or

- (b) Explain about the dietary modifications, and food, to be included and foods to be avoided in tuberculosis.

5. (a) Describe the definition, symptoms, and dietary management of galactosemia.

Or

- (b) Explain about the definition, classification clinical signs and symptoms of food – allergens.
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