#### **Sub. Code: 3001**

### B.Sc. CLINICAL NUTRITION (New Syllabus 2018-2019)

#### FIRST YEAR

#### **PAPER I – BASIC NUTRITION**

Q.P. Code: 803001

Time: Three Hours Maximum: 100 Marks

#### **Answer all questions**

I. Elaborate on:  $(3 \times 10 = 30)$ 

- 1. What are fat soluble vitamins?
- 2. Explain water as nutrient and its deficiency.
- 3. Explain source, composition, function and deficiency of protein.

II. Write notes on:  $(8 \times 5 = 40)$ 

- 1. Explain trace elements.
- 2. Sources and functions of Vitamin D and K.
- 3. Write notes on phospholipids.
- 4. Polysaccharides.
- 5. Essential and non-essential aminoacids.
- 6. Nutritional classification of food.
- 7. What are the effects of cooking and heat processing of foods?
- 8. Explain digestion and absorption of food in our body.

#### III. Short answers on: $(10 \times 3 = 30)$

- 1. Functions of sodium and potassium.
- 2. Define pellagra.
- 3. Role of intrinsic factor.
- 4. Define waxes.
- 5. What are fibers?
- 6. What is food sanitation?
- 7. Zwitter ions.
- 8. Stereoisomer.
- 9. What are polypeptides?
- 10. Colour vision.

[AHS 0321] MARCH 2021 Sub. Code: 3001

(AUGUST 2020 EXAM SESSION) B.Sc. CLINICAL NUTRITION FIRST YEAR (Regulation 2018-2019) PAPER I – BASIC NUTRITION

Q.P. Code: 803001

Time: Three hours Answer ALL Questions Maximum: 100 Marks

I. Elaborate on:  $(3 \times 10 = 30)$ 

- 1. Classification of lipids.
- 2. Give a brief account on the chemistry. Sources, functions, deficiencies and recommended daily dosage of Vitamin C.
- 3. Classify the food based on nutrients with example and its function.

II. Write notes on:  $(8 \times 5 = 40)$ 

- 1. Nutrition for athletic person.
- 2. Homeostasis of calcium.
- 3. Protein energy malnutrition.
- 4. Dark adaptation time.
- 5. Write about cyanocobalamin.
- 6. Write about saturated and unsaturated fatty acids.
- 7. Explain water as nutrient.
- 8. Uses of fibre in diet.

#### III. Short answers on: $(10 \times 3 = 30)$

- 1. What is meant by body building foods?
- 2. Functions of fats.
- 3. Xerophthalmia.
- 4. Amino acid.
- 5. Define energy.
- 6. Selenium.
- 7. Mention the functions of phospholipids.
- 8. Mutarotation.
- 9. Phrynoderma.
- 10. Disaccharides.

#### [AHS 0422] APRIL 2022 Sub. Code: 3001

# (FEBRUARY 2021 & AUGUST 2021 EXAM SESSIONS) B.Sc. CLINICAL NUTRITION FIRST YEAR (Regulations 2018-2019) PAPER I – BASIC NUTRITION O.P NO. 803001

Time: Three Hours Answer All questions Maximum: 100 Marks

#### I. Elaborate on:

(3X10=30)

- 1. Write in detail about digestion, absorption, transport and utilization of food in body.
- 2. Classify fats and oils & elaborate on composition, food sources and its functions.
- 3. Explain in detail about the effect of cooking and heat processing on the nutritive value of foods.

#### II. Write Notes on:

(8X5=40)

- 1. Describe the inter-relationship between nutrition and health.
- 2. Write in brief about basic five food groups.
- 3. Explain about the functions of proteins.
- 4. What do you understand by the term water balance and write the effect of water imbalance?
- 5. Write about functions, sources, bioavailability and deficiency of a) Calcium b) Iron.
- 6. Elaborate on functions of water-soluble vitamins.
- 7. Brief about Standardization of recipe.
- 8. Explain the different methods of food preparation.

#### **III.** Short Answers on:

(10X3=30)

- 1. Define malnutrition.
- 2. Define Nutrition.
- 3. Give Recommended Dietary Allowance of protein for pregnant and lactating women.
- 4. Explain saturated fatty acids and give examples of its sources.
- 5. Explain and list out the essential amino acids.
- 6. What are the different routes of excretion of water?
- 7. List down the sources and give Recommended Dietary Allowance (adult man) for sodium and potassium.
- 8. Write about processed supplementary foods.
- 9. Write any 6 points on care of kitchen equipment.
- 10. Write in brief about the functions of carbohydrates.

[AHS 1122] NOVEMBER 2022 Sub. Code: 3001

#### B.Sc. CLINICAL NUTRITION FIRST YEAR (Regulation 2018-2019) PAPER I – BASIC NUTRITION Q.P NO. 803001

Time: Three Hours Answer All questions Maximum: 100 Marks

I. Elaborate on: (3X10=30)

- 1. Describe the role of nutrition in fitness, athletics and sports.
- 2. Classify carbohydrates and describe its storage, sources and functions.
- 3. Elaborate on food sanitation in hygiene.

II. Write notes on: (8x5=40)

- 1. How are nutrition and health inter-related?
- 2. Explain the role of dietary fiber in health.
- 3. Brief about protein deficiency.
- 4. Iron-sources, functions and deficiency.
- 5. Write about functions, sources, bioavailability and deficiency of a) Sodium b) Potassium.
- 6. Elaborate on functions of fat-soluble vitamins.
- 7. Brief about Standardization of recipe.
- 8. Water deficiency.

#### III. Short answers on:

(10x3=30)

- 1. Define optimum and good nutrition.
- 2. Define nutrients and energy.
- 3. What is Recommended Dietary Allowance of calcium for pregnant and lactating women?
- 4. Sources of unsaturated fatty acids.
- 5. List out the non-essential amino acids.
- 6. Name five basic food groups.
- 7. Name the different cooking methods.
- 8. Processed supplementary foods.
- 9. What are the different cuts of meat?
- 10. Functions of fats and oils.

[AHS 0423] APRIL 2023 Sub. Code: 3001

## B.Sc. CLINICAL NUTRITION FIRST YEAR (Regulation 2018-2019 onwards) PAPER I – BASIC NUTRITION O.P. Code: 803001

Time: Three Hours Answer All questions Maximum: 100 Marks

I. Elaborate on:  $(3 \times 10 = 30)$ 

- 1. Define and classify Moist Heat Cooking. Describe any three Moist Heat Cooking methods with advantages and disadvantages.
- 2. Classify Detergents with examples. Add a note on formulating Detergents.
- 3. Describe the classification of Food groups and elaborate on how to use a Food guide.

II. Write notes on:  $(8 \times 5 = 40)$ 

- 1. Functions of Carbohydrates.
- 2. Explain properties of Dietary fiber.
- 3. Explain digestion and absorption of Proteins.
- 4. Explain the mechanism of water balance in the human body.
- 5. Food handling habits.
- 6. What are the functions of Food?
- 7. Effect of cooking on nutritive value of Foods.
- 8. Explain factors affecting fat absorption.

#### III. Short answers on: $(10 \times 3 = 30)$

- 1. List the sources of heme and non-heme Iron.
- 2. Name the Fat soluble and Water soluble Vitamins.
- 3. Write any three functions of Water.
- 4. List the differences between Soluble and Insoluble Fiber.
- 5. Name the essential and non-essential Amino Acids.
- 6. List the sources of Potassium.
- 7. Symptoms of Hyponatremia.
- 8. List any two food sources of saturated and Polyunsaturated Fatty Acids.
- 9. Define Pesticides and give two examples.
- 10. What are the consequences of Protein deficiency?

[AHS 1123] NOVEMBER 2023 Sub. Code: 3001

#### B.Sc. CLINICAL NUTRITION FIRST YEAR (Regulation 2018-2019 onwards) PAPER I – BASIC NUTRITION

Q. P. Code: 803001

Time: Three hours Maximum: 100 Marks

#### **Answer ALL Questions**

I. Elaborate on:  $(3 \times 10 = 30)$ 

- 1. Explain the effect of cooking on the Nutritive Value of Food.
- 2. Classify Vitamins and write down the functions of Vitamin C.
- 3. Explain in detail the sources, functions, reference values and deficiency manifestations of Calcium.

II. Write notes on:  $(8 \times 5 = 40)$ 

- 1. Sports Nutrition.
- 2. Food Guide Pyramid.
- 3. Symptoms of Good Nutritional Status.
- 4. Classification of Carbohydrates.
- 5. Functions of Fats.
- 6. Processed Supplementary Foods.
- 7. Food sanitation.
- 8. Deficiency of Iron.

#### III. Short answers on:

 $(10 \times 3 = 30)$ 

- 1. Vitamin K.
- 2. Deficiency manifestation of Iodine.
- 3. Dietary fibre.
- 4. Pellagra.
- 5. Sources of Fat.
- 6. Dehydration.
- 7. Beri-beri.
- 8. Any three difference between Marasmus and Kwashiorkor.
- 9. Essential aminoacids.
- 10. List the Enzymes involved in digestion.