PREVIOUS YEAR QUESTION PAPERS

BACHELOR OF SCIENCE NUTRITION AND DIETICS

Roll No.		III		
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Total No. of Pages: 02

Total No. of Questions: 09

Bachelor of Science (Honours) (Nutrition and Dietics) (Sem.-1)
FOOD MICROBIOLOGY & FOOD SAFETY

Subject Code: BSND-113-18

M.Code: 77210

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Write briefly:

- a) Define pasteurization.
- b) Which scientist gave the concept of canning?
- c) Define the log phase.
- d) What is shape of coccus bacteria?
- e) Which acid is present in vinegar?
- f) What is neurotoxin?
- g) What are indicators of food safety?
- h) What do you understand by cold sterilization?
- i) Enlist the thermal methods for preservation of food products.
- j) What do you understand by personal hygiene?



SECTION-B

- Q2 Discuss briefly about the major milestones in the history of food microbiology.
- Q3 What do you understand by food spoilage? Enlist the different sources of food borne pathogens.
- Q4 Describe the fermentative production of sauerkraut.
- Q5 Discuss the principle of hurdle technology along with its applications.
- Q6 Describe the role of different physical agents in prevention of food spoilage.

SECTION-C

- Q7 Define Microbial Growth. Discuss in detail about the different extrinsic factors, which affect the microbial growth.
- Q8 Enlist different Indian fermented foods. Discuss the raw materials, microflora involved and process for the production of yoghurt along with flow diagram.
- Q9 What do you understand by salmonellosis? Which organism is responsible for it? Write detailed note on different foods involved, symptoms and preventive measures of salmonellosis.

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Bachelor of Science (Honours) (Nutrition and Dietics) (Sem.-1)
FOOD MICROBIOLOGY & FOOD SAFETY

Subject Code: BSND-113-18 M.Code: 77210

Date of Examination: 17-01-23

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Write briefly:

- a) What do you understand by pasteurization?
- b) Give examples of two food borne viruses.
- c) Define generation time
- d) Define food intoxication,
- e) Enlist any four traditional fermented foods.
- f) What are the most common food hazards?
- g) What do you understand by D-value?
- h) What is the significance of food safety?
- i) What do you understand by contamination?
- j) What are the different ISO standards?



SECTION-B

- Discuss in detail about the major milestones in the history of food microbiology and their significance.
- 3. Discuss in detail about the different intrinsic factors, which affect the microbial growth.
- 4. Discuss the various micro organisms associated with milk and milk products.
- 5. Explain different steps of HACCP and its significance in food industry.
- 6. Discuss the role of different chemical agents in microbial control.

SECTION-C

- Define microbial growth. Discuss in detail about the various phases of microbial growth curve along with suitable sketch.
- What do you understand by food poisoning? Explain different types of food poisoning in food systems.
- 9. Write short note on the following:
 - a) TQM
 - b) Hurdle Technology.

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Date of Examination: 17-01-23

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INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks
- SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

Write briefly:

- a) What do you understand by pasteurization?
- b) Give examples of two food borne viruses.
- c) Define generation time
- d) Define food intoxication.
- e) Enlist any four traditional fermented foods.
- f) What are the most common food hazards?
- g) What do you understand by D-value?
- h) What is the significance of food safety?
- What do you understand by contamination?
- i) What are the different ISO standards?



SECTION-B

- Discuss in detail about the major milestones in the history of food microbiology and their
- Discuss in detail about the different intrinsic factors, which affect the microbial growth.
- Discuss the various micro organisms associated with milk and milk products.
- Explain different steps of HACCP and its significance in food industry.
- Discuss the role of different chemical agents in microbial control.

SECTION-C

- Define microbial growth. Discuss in detail about the various phases of microbial growth curve along with suitable sketch.
- What do you understand by food poisoning? Explain different types of food poisoning in food systems.
- Write short note on the following:
 - a) TOM

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b) Hurdle Technology.

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B.Sc.Hons. (Nutrition and Dietics) (Sem.-1)
INTRODUCTION TO FOOD SCIENCE

Subject Code: BSND-112-18 M.Code: 77209

Date of Examination: 14-01-2023

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO markseach.
- SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Write briefly :

- a) Write about classification of food.
- b) Why food is cooked? Name methods.
- c) What constitutes carbohydrates and protein?
- d) Name six water soluble and three fat soluble vitamins.
- e) Draw tetrahedral; structure of water showing bonding pattern.
- Write about storage requirements of rough and brown rice.
- g) Write about nutritional significance of oil seeds and nuts.
- h) How egg is graded?
- i) How fish act as source of nutrients?
- i) Give classification of meat and its composition.



SECTION-B

- Write functions of food. What are different food groups and their role as nutrients.
- a) Explain chemical nature of water. What are water activity and its role in food spoilage?
 - b) How germination changes the composition of the cereals, elaborate?
- 4. a) Write the beneficial effect of ripening of fruits. How over-ripening effect on quality/composition of fruits?
 - b) Differentiate and name climacteric and non-climateric fruits.
- 5. a) Draw a schematic diagram of an egg. Write about its nutritional significance.
 - b) What is fish? Write about its nutritional significance.
- 6. Draw structure of meat/muscle. Write about its composition and nutritive value.

SECTION-C

- a) Define milk. Write about nutritional value of fresh and fermented milk. How milk is stored.
 - b) Write about merits and demerits of solar cooking.
- a) What are food emulsion and food dispersions? Elaborate role of dispersions in food structure, stability and food product development.
 - b) Define spices and herbs. Classify spices based on use and composition.
- a) Define health foods, functional foods, prebiotics, probiotic, nutraceuticals, organic foods and GM foods. Write about function requirements of any three.
 - b) Write role of neutraceuticals as functional foods.

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NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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Bachelor of Science-(Honours) (Nutrition and Dietics) (Sem.-1)
HUMAN PHYSIOLOGY

Subject Code: BSND-114-18

M.Code: 77211

Date of Examination: 12-01-2023

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

- 1. Write briefly :
 - a) Fallopian tubes.
 - b) auditory ossicles.
 - c) ECG.
 - d) Lactation
 - c) Thyroid gland
 - f) Basal nuclei
 - g) Alveoli
 - h) Nephron
 - i) SER
 - j) Cardiac tissuc



SECTION-B

- 2. Draw and label the structure of neuron.
- 3. Write a note on reliculoendothelial system.
- 4. How are proteins digested in the body?
- 5. Draw a well labeled diagram of ear.
- 6. Describe the phases of menstrual cycle in detail.

SECTION-C

- Draw a well labeled diagram of heart and discuss briefly the anatomy and working of heart.
- Describe the anato ny of Female Reproductive System with neat labeled diagram.
- Write different endocrine glands present in human body. Discuss the hormones of pituitary gland and their functions.

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B.Sc. Hons (Nutrition and Dietics) (Sem.-1)
PRINCIPLES OF HUMAN NUTRITION
Subject Code: BSND-111-18

Subject Code: BSND-111-18 M.Code: 77208

Date of Examination: 10-01-2023

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1) Write briefly:

- a) Fair Sources of protein
- b) Deficiency of fats
- c) Rich sources of energy
- d) Metabolism of fat
- e) Major function of carbohydrates
- f) Deficiency of water-soluble vitamins
- g) Difference between minerals and vitamins
- h) Function of vitamins B12 and B6
- i) Rich Sources of magnesium and zinc
- j) Metabolism of protein.



SECTION-B

- 2) Explain deficiency and metabolism of fats.
- 3) Define protein and its metabolism in detail with specific diagram.
- 4) Write about the classification of carbohydrates and its metabolism.
- Explain about the function of macro vitamins and minerals.
- Define energy and its sources, deficiency and function.

SECTION-C

- 7) Explain in detail about the function, metabolism, sources and deficiency of energy.
- Explain in detail about the function, metabolism, sources and deficiency of vitamin B.
- 9) Explain in detail about the function, metabolism, sources and deficiency of CHO.

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BHMCT (Sem-1) FOOD SCIENCE & NUTRITION-I

Subject Code : BH-101 M.Code : 14501

Date of Examination: 20-06-2023

Time: 3 Hrs.

Max. Marks: 30

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying ONE mark each.
- SECTION-B contains FIVE questions carrying 2¹/₂ (Two and Half) marks each and students has to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying FIVE marks each and students have to attempt any TWO questions.

SECTION-A

- 1. Write short notes on :
 - a) Carbohydrates
 - b) Gelatinization
 - c) Vitamins
 - d) Water
 - e) Obesity
 - f) BMR
 - g) Hollow -Calorie Food
 - h) Retrogradation
 - i) Energy Balance
 - j) Malnutrition.



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SECTION-B

- 2. Mention one function of each : Calcium, Iron, Sodium, Iodine and Fluorine.
- 3. Explain any 5 functions of Fats.
- 4. Classify Vitamins.
- 5. What are the effects of excessive intake of carbohydrates in diet?
- 6. Name two food sources of each :

Thiamine, Riboflavin, Niacin, Cyanocobalamin and Folic Acid.

SECTION-C

- Define the terms Health, Nutrition and Nutrients. State importance of food in maintaining good health.
- Illustrate the basic structure of proteins. State the properties of proteins that are useful in various food preparations.
- What are fats and oils? Differentiate between them.