

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

Bachelor of Science-(Honours) (Nutrition and Dietetics) (Sem.-1)

HUMAN PHYSIOLOGY

Subject Code : BSND-114-18

M.Code : 77211

Date of Examination : 15-12-2023

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. 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

1. Write briefly :

- a) What is ECG?
- b) What are the taste receptors present on the tongue?
- c) What is the function of urinary bladder?
- d) What is reflex arc?
- e) What is reticuloendothelial system?
- f) Draw the structure of urinary system.
- g) What is Cardiac Output?
- h) Draw the structure of typical human cell.
- i) What are the hormones involved in lactation?
- j) What are differences between skeletal and smooth muscles?

SECTION-B

2. Draw a well labelled diagram of ear.
3. Describe the phases of menstrual cycle in detail.
4. Write the functions of RBC, WBC and platelets.
5. What are the enzymes released from stomach and small intestine?
6. How are proteins digested in the body?

SECTION-C

7. What is blood pressure? What are its different types? How is blood pressure regulated in the body?
8. What is Autonomic Nervous System? Differentiate sympathetic and parasympathetic nervous system.
9. Explain the mechanism involved in skeletal muscle contraction.

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Bachelor of Science (Honours) (Nutrition and Dietetics) (Sem.-1)

FOOD MICROBIOLOGY & FOOD SAFETY

Subject Code : BSND-113-18

M.Code : 77210

Date of Examination: 13-12-2023

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. 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

I. Write briefly :

- a) Significance of spores
- b) Food Microbiology
- c) Structure of mushroom
- d) Food intoxication
- e) Difference between thermal and non-thermal preservation
- f) TWO names of fungi used in the food industry
- g) Lag phase in growth curve
- h) Food spoilage
- i) Full form of TQM
- j) Ferment.

SECTION-B

2. Discuss the morphology and structure of virus.
3. **Throw light on the food spoilage due to microbes of:**
 - a) Milk
 - b) Fruits.
4. Write a note on the manufacturing of traditional Indian foods with respect to fermentation.
5. Throw light on any two types of hazards in relation to food safety.
6. Discuss various methods of waste disposal.

SECTION-C

7. **Write notes on any two :**
 - a) Factors affecting growth of microorganisms?
 - b) Thermal methods of food preservation?
 - c) Hurdle technology
8. Give a detailed overview of HACCP.
9. Write a detailed note on the origin, symptoms and prevention or any two food borne infections.

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B.Sc. Hons (Nutrition and Dietics) (Sem.-1)
PRINCIPLES OF HUMAN NUTRITION

Subject Code : BSND-111-18

M.Code : 77208

Date of Examination : 08-12-2023

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. 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

I. Write short notes on the following:

- a) Balanced Diet
- b) Protein Energy Malnutrition
- c) RDA
- d) Carbohydrates
- e) Obesity
- f) Anemia
- g) Reference Man
- h) Anthropometry
- i) Non Conventional Foods
- j) Body Building Foods.

SECTION-B

2. Explain the role of clinical signs and biochemical methods in assessment of nutritional status of an individual.
3. Discuss the importance of non-conventional foods and their use in a nutritious diet.
4. Write a note of functions and sources of carbohydrates.
5. Discuss the metabolism and deficiency of fats in details.
6. Explain the functions and sources of Vitamin C in details.

SECTION-C

7. Define and explain the functions of food in details.
8. Explain the functions, metabolism, sources and deficiency of iron in details.
9. Discuss the factors to be kept in mind while formulating RDA.

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