

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

**B.Sc. (Nutrition and Dietetics) (Sem.-3)
NUTRACEUTICALS, FUNCTIONAL FOOD & NUTRIGENOMICS**

Subject Code : BSND-217-18

M.Code : 78545

Date of Examination : 14-12-22

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) Nutraceuticals.
- b) Health benefits of dietary fibres.
- c) What are reactive oxygen species? Give examples.
- d) Uses of wheat bran as a functional food.
- e) Gene expression.
- f) Proteomics.
- g) Write the uses of sea food as a functional food.
- h) Prebiotics.
- i) Polyphenols.
- j) Role of Nutraceuticals in reducing heart disease.



SECTION-B

2. Define and classify nutraceuticals with examples.
3. Write a brief note on functional foods for the prevention of atherosclerosis and cancer.
4. What are probiotics? Explain its gastrointestinal health and other benefits.
5. Write a detailed note on nutrition control on amino acids.
6. Explain Any Two :
 - a) Phytoestrogens
 - b) Glucosinolates
 - c) Coffee as a functional drink.

SECTION-C

7. Classify Nutraceuticals depending upon their characteristics and major uses.
8. What is Nutrigenomics? Discuss the possible role of nutrigenomics in addressing diabetes, cancer and obesity.
9. Discuss in detail the marketing and regulatory issues of functional foods.

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B.Sc.(Hons.) (Nutrition and Dietetics) (Sem.-3)

HEALTH HYGIENE AND SANITATION

Subject Code : BSND-213-18

M.Code : 78541

Date of Examination : 12-12-2022

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. Rodent control
- b. Typhoid
- c. Infectious diseases
- d. Water Contamination
- e. Personal Hygiene
- f. Vaccination
- g. Cholera
- h. Water Purification
- i. Jaundice
- j. Municipal Health Services.



SECTION-B

2. Explain importance of health services in a city.
3. What do you understand by communicable diseases, explain?
4. How quarantine has facilitated controls of highly infectious virus like SARS Covid-19?
5. What is vector management, how does it aids in controlling hygiene at homes?
6. What do you understand by the term accidental food poisoning, explain ways of its prevention?

SECTION-C

7. What is the role of municipal health services and its mobile unit in terms of a city?
8. Explain various characteristics of a good health and factors affecting it.
9. Illustrate the term food hygiene, How inculcating best hygiene practices keeps ourselves safe?

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B.Sc. Honours (N&D) (Sem.-3)

COMMUNITY NUTRITION

Subject Code : BSND-212-18

M.Code : 78540

Date of Examination : 16-12-2022

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

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

SECTION-A

1. Write briefly :

- a. Under Nutrition
- b. WHO
- c. Clinical assessment
- d. CARE
- e. Kwashiorkor.
- f. Vital Statistics
- g. Vitamin A deficiency (VAD)
- h. NNMB
- i. Nutrition education programme
- j. Iodine deficiency disorder.



SECTION-B

2. Briefly explain role of Food and Nutrition Board (FNB) in India.
3. What is anthropometric data? How you can interpret assess nutritional status?
4. How does blood samples assists in collecting nutritional status of an individual?
5. Illustrate protein energy malnutrition.
6. How can you measure food consumption of an individual?

SECTION-C

7. Explain role of UNICEF's role in India in terms of nutrition.
8. What is malnutrition, explain its causes and effect?
9. How community kitchens have supported in combating evil of malnutrition?

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B.Sc. Hons. (N&D) (Sem.-3)

NORMAL AND THERAPEUTIC NUTRITION

Subject Code : BSND-211-18

M.Code : 78539

Date of Examination : 19-12-22

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) Define the term nutrition.
- b) What is RDA?
- c) What is therapeutic diet?
- d) Complications of obesity.
- e) Define DASH diet.
- f) What is atherosclerosis?
- g) Define fever.
- h) Give the objectives of dietary management in Cardiac patients.
- i) What do you mean by term 'puberty'?
- j) Define lactose intolerance.



SECTION- B

2. What are the nutritional requirements and physiological changes occur during pregnancy?
3. Describe various nutrition related problems common among the elderly by giving suitable reasons.
4. What is Balanced Diet? Give its importance.
5. Differentiate between normal and artificial feeding.
6. Discuss the role of diet in prevention of heart disease.

SECTION - C

7. Define meal planning and what are the factors to be considered in meal planning?
8. Define obesity. Discuss its causes, symptoms and dietary management.
9. Discuss the growth and development during :
 - a) Childhood
 - b) Adolescence.

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