

Roll No.

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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.

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.