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BFTFTC 381

**Choice Based Credit System VI Semester B.Sc. (FT) Degree
Examination, September 2022
(2021 – 22 Batch Onwards)
FOOD TECHNOLOGY
Nutraceuticals and Functional Foods**

Time : 3 Hours

Max. Marks : 80

PART – A

1. Answer in brief on **any 10** of the following. **(10×2=20)**
- Flavonoids.
 - Dietary fibers.
 - Probiotics.
 - Kwashiorkor.
 - Uses of Vitamin C.
 - What are free radicals ?
 - Aquaceuticals.
 - Toxicology.
 - Give two examples for Medicinal plants.
 - Simple carbohydrates.
 - Functional foods.
 - Complex carbohydrates.

PART – B

Answer **any four** of the following choosing **one full** question from **each** Unit.

(4×15=60)

UNIT – 1

2. a) Write a note on Antioxidants.
b) What is food pyramid ? Explain with the general dietary guidelines.
c) Explain the role of nutraceuticals in prevention of diseases. **(3+5+7)**

OR

P.T.O.



3. a) What is malnutrition ? Classify protein energy malnutrition.
b) Write a note on role of dietary fiber in reducing serum cholesterol levels.
c) What are nutraceuticals ? Classify based on its sources. **(4+4+7)**

UNIT – 2

4. a) Write a note on chitin.
b) Explain the mechanism of probiotics.
c) Discuss the classifications of Terpenoids. **(3+5+7)**

OR

5. a) Give the application of Phenolic compounds.
b) Differentiate between probiotics and prebiotics.
c) Explain the application of Chondroitin sulphate. **(4+4+7)**

UNIT – 3

6. a) Define natural antioxidants. Mention the types with examples.
b) Write a note on mineral extraction and enrichment process.
c) Explain toxicology and use of clinical trials involved in animal models. **(3+5+7)**

OR

7. a) Briefly explain bioavailability and bioequivalence.
b) Briefly explain the post-harvest technology for crop improvement.
c) Define phytonutraceuticals. Explain the role of medicinal plants in nutraceutical industry. **(4+4+7)**

UNIT – 4

8. a) Explain fruits and vegetables as functional foods.
b) Describe the development in processing of functional foods.
c) Explain role of fermented food as functional food. **(3+5+7)**

OR

9. a) Write a note on nuts and oil seeds as functional foods.
b) Role of fermented food in diabetes.
c) Explain the scope of functional foods and nutraceuticals. **(4+4+7)**