

Paper Id: Roll No.

B PHARM
(SEM VIII) THEORY EXAMINATION 2022-23
DIETARY SUPPLEMENTS AND NUTRACEUTICALS

Time: 3 Hours**Total Marks: 75****Note: 1.** Attempt all Sections.**SECTION A****1. Attempt all questions in brief.****10 x 2 = 20**

- a. What are Nutraceuticals?
- b. Write the uses of Lycopene
- c. Define free radicals. Give example
- d. Give the example of synthetic antioxidants.
- e. Write the importance of MPO on food safety.
- f. Differentiate between prebiotics and probiotics.
- g. Mention the source and uses of Flaxseeds.
- h. List out the nutraceuticals for child health.
- i. Write the health benefits of Lycopene and Xanthophylls
- j. What are reactive oxygen species? Give examples.

SECTION B**2. Attempt any two parts of the following:****2 x 10 = 20**

- a. Define public health. Discuss the Nutraceuticals and dietary supplements used in maternal and child nutrition
- b. Classify phytoestrogen. Write their characteristic features and occurrence .
- c. Describe the free radical-induced pathogenesis of atherosclerosis and ischemic reperfusion injury.

SECTION C**3. Attempt any five parts of the following:****7 x 5 = 35**

- a. Mention the source, Name of marker compounds, their chemical nature, uses, and health benefits of Garlic.
- b. Classify polyphenolics and write about their occurrence and their biological properties.
- c. Enumerate the role of free radicals in the pathogenesis of Diabetes mellitus.
- d. Discuss Pharmacopeial Specifications for dietary supplements and nutraceuticals
- e. Discuss the free radicals mediated damage of carbohydrates and nucleic acid.
- f. What are functional foods? Write the sources, marker compounds, medicinal uses, and health benefits of Spirulina.
- g. What are antioxidants? Classify them; explain the biological role of endogenous enzymatic antioxidant.