Printed Pages:01 **Sub Code:BP-812ET**

Paper Id: 231539 **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.

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