



Paper ID : 250236

Roll No:

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

**BPHARMA**  
**(SEM VIII) THEORY EXAMINATION 2024-25**  
**DIETARY SUPPLEMENTS AND NUTRACEUTICALS**

TIME: 3 HRS

M.MARKS: 75

**Note:** 1. Attempt all Sections. If require any missing data; then choose suitably.

## SECTION A

1. Attempt *all* questions in brief.

10 x 2 = 20

a.	Define Dietary supplements
b.	Mention the source and uses of Ginseng
c.	Write the health benefits of Leutin and Lycopene
d.	Define Probiotics with examples.
e.	Explain about reactive oxygen species.
f.	Write about functional food ingredients with examples.
g.	Define free radicals with examples.
h.	Explain antioxidant with suitable examples.
i.	Write the importance of FSSAI on food safety.
j.	Define adulteration of foods with examples.

## SECTION B

2. Attempt any *two* parts of the following:

2 x 10 = 20

a.	Discuss production of free radicals in cells and explain damaging reactions of free radicals on proteins.
b.	Write about the occurrence, chemical nature and uses of xanthophylls and Reservetrol.
c.	Discuss about source, name of marker compound and chemical nature of Garlic and Broccoli.

## SECTION C

3. Attempt any *five* parts of the following:

7 x 5 = 35

a.	Write the classification of nutraceutical and discuss about diseases that is prevented by nutraceutical.
b.	Discuss about the dietary suppliments used in child nutrition.
c.	Classify flavonoids. Write their characteric features.
d.	Write about Pharmacopeial specifications for nutraceuticals.
e.	Discuss the role of free radical in the pathogenesis of Cancer.
f.	Classify antioxidant and explain biological role of superoxide dismutase.
g.	Discuss about the Dietary fibres and complex carbohydrates as functional food ingredients.