

BPHARM
(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.



Paper ID : 250236

Printed Page: 1 of 1
SubjectCode: BP812ET

RollNo:

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

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 <i>all</i> 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 <i>two</i> 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 Resveratrol.	
c.	Discuss about source, name of marker compound and chemical nature of Garlic and Broccoli.	

SECTION C

3.	Attempt any <i>five</i> 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 supplements used in child nutrition.	
c.	Classify flavonoids. Write their characteristic 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.	



Paper ID : 260716

Printed Page: 1

Subject Code:BP812ET

Roll No:

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

BPHARM

(SEM. VIII) THEORY EXAMINATION 2025-26

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 functional food and dietary supplements.
b.	Write down the health benefits of Ginseng and garlic.
.	Mention the medicinal benefits of Xanthophylls and leutin.
c.	List the methods used to estimate free radicals.
d.	What are dietary fibres? Give examples.
.	Elaborate FSSAI, FDA, FPO, and MPO.
e.	Enumerate functional foods for the prevention of chronic disease.
f.	Define antioxidants? Give examples.
g.	What is the purpose of AGMARK?
h.	Name the marker compounds of Gingko and flaxseeds.
i.	
j.	

SECTION B

2. Attempt any two parts of the following:

2 x 10 = 20

a.	Discuss in detail the functional foods for chronic disease prevention.
b.	Explain the steps involved in the development of free radical-mediated damage caused by diabetes mellitus and cancer.
.	
c.	Explain the classification, occurrence, and biological properties of carotenoids with examples.

SECTION C

3. Attempt any five parts of the following:

7 x 5 = 35

a.	Explain the pharmacopeial specifications for dietary supplements and nutraceuticals
b.	Discuss the role of free radicals in Ischemic reperfusion injury and Atherosclerosis.
.	Explain the classification, occurrence, and biological properties of flavonoids with examples.
c.	Discuss the free radicals-mediated damage of lipids and proteins.
d.	Outline the process of aging and mention nutraceuticals used to reduce it.
.	Illustrate the effect of processing, storage, and interactions of various environmental factors on the potential of nutraceuticals.
e.	
f.	Describe the principles of GMP on food safety.

g.