

THE TAMIL NADU Dr. M.G.R. MEDICAL UNIVERSITY

[B.PHARM 1223]

**DECEMBER 2023
(SEPTEMBER 2023 EXAM SESSION)**

Sub. Code: 2088

**B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)
PCI Regulation 2017 - SEMESTER VIII
PAPER XIII - DIETARY SUPPLEMENTS AND NUTRACEUTICALS**

Q.P. Code: 562088

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions. (2 x 10 = 20)

1. Classify polyphenolics with examples and write about their occurrence. Explain their biological properties.
2. Explain nutraceuticals to be used and dietary habits to be avoided for prevention or control diabetes.
3. Define public health. Write in detail about the nutraceuticals and dietary supplements used in maternal and child nutrition.

II. Write notes on: Answer any SEVEN questions. (7 x 5 = 35)

1. Differentiate between polyphenols and flavanoids.
2. What are synthetic antioxidants? Write their mode of action and uses.
3. Explain the impact of processing condition on nutraceuticals.
4. Enlist various endogenous and exogenous antioxidants. Write the biological role of superoxide dismutase.
5. Write a note on prebiotics and probiotics.
6. Explain the process of free radicals mediated damage to protein.
7. Write a note on regulatory aspects of FSSAI on food safety.
8. Explain the process of lipid peroxidation and its impacts.
9. Write the mode of action and biological uses of catalase and glutathione.

III. Short answers on: Answer ALL questions. (10 x 2 = 20)

1. Define nutraceuticals.
2. Write health benefits of alpha and Beta-carotene.
3. Write types of food adulteration.
4. Write the uses of wheat on functional foods.
5. Mention the methods used to estimate free radicals.
6. What are the purposes of FSSAI?
7. Write the health benefits of catechins.
8. Write the importance of GMP.
9. Mention functional foods used for prevention of hypertension and stress.
10. What is osteoarthritis? Mention its causes.
