

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

[B.PHARM 0323]

**MARCH 2023
(SEPTEMBER 2022 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. Define and classify nutraceuticals with examples.
2. Discuss fructo-oligosaccharides and Tocopherols as nutraceuticals in detail.
3. Discuss the GMP on food safety in detail.

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

1. Summarize the positive effects of processing on potential of nutraceuticals with suitable examples.
2. Define HACCP. Explain the principles involved in HACCP.
3. Outline the role of free radicals in Diabetes mellitus.
4. Enlist the examples of functional foods for prevention of chronic diseases.
5. Explain the reactive oxygen species.
6. Elaborate the stepwise effects of free radicals on lipids.
7. Compare and contrast ROS and RNS on the basis of production site, function, clearance pathways and examples.
8. Explain Super Oxide Dismutase (SOD) with special emphasis on its isoforms.
9. Write a note on maternal and child nutrition.

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

1. Occurrence and chemical structure of Lycopene.
2. Medicinal benefits of Xanthophylls.
3. Chemical structure and medicinal benefits of Quercetin.
4. AGMARK.
5. Define nutraceuticals.
6. Biological source and medicinal benefits of Tea.
7. Vitamin E.
8. Microalgae.
9. Omega 3 fatty acid.
10. Types of inflammation.
