

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

**[BPHARM0422]**

**APRIL 2022  
(SEPTEMBER 2021 SESSION)**

**Sub. Code: 2088**

**B.PHARMACY DEGREE COURSE (SEMESTER EXAMINATIONS)  
PCI Regulation 2017 SEMESTER VIII  
PAPER XII - 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. Describe the types of food adulterations in short. Explain with suitable examples how food adulteration is detected with rapid test.
2. Defend the free radical theory of ageing with the help of its modifications.
3. Explain the FDA regulations for nutraceuticals.

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

1. Explain in detail the interaction of environmental factors on the potential of nutraceuticals.
2. Elaborate vitamins as functional food.
3. Summarize the role of free radicals in cancer.
4. Why marine algae are referred as super food?
5. Elaborate "Resveratrol - a phytochemical as nutraceutical".
6. Compare and contrast the role of FSSAI and AGMARK rules and regulations.
7. Interpret Flaxseeds and Ginkgo as nutraceuticals.
8. Explain the role of Soya beans as nutraceutical.
9. Enlist the sources of anthocyanidines. Give examples along with their chemical structures.

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

1. Probiotics.
2. Source and medicinal benefits of Broccoli.
3. Active biomarkers of Garlic.
4. Biological functions of Carotenoids.
5. Chemical structure and medicinal benefits of Tocopherols.
6. Butylated Hydroxy Anisole.
7. Define nutraceuticals.
8. Melatonin.
9. Types of food adulteration.
10. Lacto Bacillum.

\*\*\*\*\*