

B.PHARM.
THEORY EXAMINATION (SEM-VIII) 2016-17
PHARMACEUTICS-XII

Time : 3 Hours

Max. Marks : 100

Note : Be precise in your answer. In case of numerical problem assume data wherever not provided.

SECTION – A

1. **Explain the following:** **10 x 2 = 20**
- (a) Freezing
 - (b) Microwave heating
 - (c) Thermally processed food
 - (d) Fortified foods
 - (e) Functional foods
 - (f) Nutraceuticals
 - (g) Ice crystal damage
 - (h) Give examples of any two dietary supplements.
 - (i) Calorific value
 - (j) Food technology

SECTION – B

2. **Attempt any five of the following questions:** **5 x 10 = 50**
- (a) Discuss freezing, progressive freezing and changes in food during refrigerated storage.
 - (b) Explain Food preservation and its methods.
 - (c) Give classification, categories and rational of use of nutraceuticals
 - (d) Describe regulatory aspects of nutraceutical products in India.
 - (e) Discuss Food Safety and Standards Authority of India (FSSAI).
 - (f) Give technology-basics and applications for extraction of nutraceuticals from various sources
 - (g) Discuss microwave heating and drying methods for food products
 - (h) Explain Ice crystal damage and effect of dehydration

SECTION – C

- Attempt any two of the following questions:** **2 x 15 = 30**
- 3 Give Brief introduction to Agmark and Bureau of Indian Standards (BIS)
 - 4 **Give brief description of the following:**
 - (i) Packaging of frozen, dried products and thermally processed foods.
 - (ii) Dietary supplements
 - 5 **Write notes on the following:**
 - (i) Supercritical fluid extraction
 - (ii) Nutraceutical label claim test