

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Tech. (Food Technology)

[ICAR-Sixth Deans' Committee Recommended Syllabus]

Semester	: II (New)	Term	: Second	Academic Year	: 2024-25
Course No.	: FQA-123	Title	: Design and Formulation of Foods		
Credits	: 3(2+1)	Time	: 10:00 to 13:00 hrs.	Total Marks	: 80
Day & Date	: Monday, 30.06.2025				

Note : 1. Solve ANY EIGHT questions from SECTION 'A'.
2. All questions from SECTION 'B' are compulsory.
3. All questions carry equal marks.
4. Draw neat diagram wherever necessary.

SECTION 'A'

- Q.1 What are the different food groups and write about Recommended Dietary Allowances (RDA) for Indians.
- Q.2 Write the functions of main nutrients in human development.
- Q.3 Write the nutrition for infants, pre-school and school children, adults, pregnant and lactating women and old age people.
- Q.4 Enlist the Indian traditional sweet and snack food products. Write the steps for quality improvement and value addition.
- Q.5 Write in detail about the principles and objectives of diet therapy.
- Q.6 Define Functional foods and write the concept in design of functional foods.
- Q.7 Write the concepts for formulation of foods for drought and disaster afflicted.
- Q.8 What are the diet for patient suffering from diabetes mellitus and osteoporosis?
- Q.9 Write about the concepts in design of Nutraceutical foods.
- Q.10 Write short notes on:
a) Recent trends in food formulation
b) Antioxidant rich food products

SECTION 'B'

- Q.11 Define the following terms:
- 1) Antioxidants
 - 2) Diet
 - 3) Nutrients
 - 4) Therapeutic diets
 - 5) Nutraceutical foods
 - 6) Space food
 - 7) Anti-nutritional factors
 - 8) Recommended Dietary Allowances (RDA)

Q.12 Match the pairs:

'A'

- 1) Diabetes mellitus
- 2) Phytates
- 3) Cardiac problem
- 4) Gastrointestinal disorder
- 5) Osteoporosis
- 6) Defense services persons
- 7) Vitamin A
- 8) Milk

'B'

- a) Cholesterol
- b) Casein
- c) Blood glucose
- d) Eye disorders
- e) Soybean
- f) Fiber rich food
- g) High protein diet
- h) Calcium deficiency

