

MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE
SEMESTER END THEORY EXAMINATION

B.Sc.(Hons.) Agriculture

Semester	: VI (New)	Term	: Second	Academic Year	: 2022-23
Course No.	: FST 362	Title	: Principles of Food Science and Nutrition		
Credits	: 2 (2+0)				
Day & Date	: Monday, 10.07.2023	Time	: 14:00 to 17:00 hrs.	Total Marks	: 80

- 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 Define food. Give the objectives of food science and write in detail any three physical properties of food.
- Q.2 Explain the sensory properties of food.
- Q.3 Enlist the components of food. Write physical properties and importance of water.
- Q.4 Define carbohydrates and give its classification.
- Q.5 Explain in detail the functions and sources of vitamins.
- Q.6 Enlist the groups of important bacteria. Discuss any four of them.
- Q.7 What is food preservation? Write the principles of food preservation and methods of drying.
- Q.8 Define malnutrition. Explain causes and prevention of malnutrition.
- Q.9 What is fortification of food? Write its benefits and types.
- Q.10 What is menu planning? Give principles of planning diets and discuss protein metabolism.

SECTION 'B'

- Q.11 Define the following terms:

- | | | | |
|---------------|---------------|----------------------|------------------|
| 1) Health | 2) Nutrition | 3) Under nutrition | 4) Nutrient |
| 5) Metabolism | 6) Absorption | 7) Food microbiology | 8) Food spoilage |

- Q.12 State True or False:

- 1) Microorganisms that easily grow and tolerate high temperature, are known as thermophilic microorganisms.
- 2) Goiter is caused due to deficiency of iodine.
- 3) Osteomalacia disease occurs due to lack of vitamin D.
- 4) The introduction of high yielding varieties of seeds after 1965 along with increased use of fertilizers and better irrigation is collectively known as yellow revolution.
- 5) Mid day meal programme was started in the year 1970.
- 6) Long form of WHO is World Health Organization.
- 7) Antoine Lavoisier is called as 'Father of Nutrition'.
- 8) World Food Day is celebrated on 5th December every year.

