## MAHARASHTRA AGRICULTURAL UNIVERSITIES EXAMINATION BOARD, PUNE SEMESTER END THEORY EXAMINATION

## B.Sc.(Hons.) Agriculture

Semes	ter : VI (New) Term : Second Academic Year : 2023-24
Course	Title • Principles of Food Science and Nutrition
Day &	
	Note: 1. Solve ANY EIGHT questions from SECTION 'A'.
	<ol> <li>All questions from SECTION 'B' are compulsory.</li> <li>All questions carry equal marks.</li> </ol>
	4. Draw neat diagram wherever necessary.
	SECTION 'A'
Q.1	State and explain the chemical properties of food.
Q.2	Enlist and explain the physical properties of food.
Q.3	Explain in short chemistry of carbohydrates.
Q.4	Explain chemistry of protein in brief.
Q.5	Define Vitamin. Explain fat soluble vitamins.
Q.6	Enlist the most common microorganisms of food and elaborate yeast and bacteria.
Q.7	How is food preserved and processed by heat? Explain its various methods in brief.
Q.8	Enlist the different national programmes adopted for improving the nutritional status of a community. Explain National Anemia Control Programme.
Q.9	What is Food fortification? Explain in brief.
Q.10	Enlist the nutritional problems caused by vitamin deficiencies and explain in short about thiamine and ascorbic acid deficiency.
	SECTION 'B'
Q.11	Fill in the blanks:
	1) Freezing point of a material is theat which it changes from liquid to solid.
	2) Folic acid comes from a word.
	3) Spectrophotometers are used for a more reliable measurement of
	4) pigments are responsible for the red, purple and blue colour of fruits.
	5) Foams are dispersions of in a liquid which is the continuous phase.
	6) 1g of Carbohydrates gives kcal of energy.
	7) is a process used for inactivating enzymes in blanching.
	8) The generic name of Polysaccharides is
	mm A.V

(P.T.O.)

## Q.12 State True or False:

- 1) Molds are multicellular microorganisms with mycelia morphology.
- 2) Rheology deals with Elasticity, Plasticity and Viscosity.
- 3) Beriberi is not caused due to the deficiency of Vitamin B.
- 4) Recommended dietary allowances are estimates of nutrients to be consumed daily.
- 5) Lathyrism is caused due to excess consumption of cereals.
- 6) Hedonic rating relates to pleasurable or unpleasurable experiences.
- 7) Green pigments involved in photosynthesis in plants and microorganisms are xanthophylls.
- 8) Lactic acid bacteria are useful bacteria.

