

Roll No.

Total No. of Pages : 02

Total No. of Questions : 09

B.Sc. (Hons.) Agriculture (Sem.-6)

PRINCIPLES OF FOOD SCIENCE AND NUTRITION

Subject Code : BSAG609-19

M.Code : 91800

Date of Examination : 24-01-2023

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.**

SECTION-A

- 1. Write briefly :**
- a) Foods rich in vitamin D are not stored in transparent packaging material
 - b) Foods take longer time to cook at high altitudes
 - c) Proteins act as buffering agent
 - d) Fat is important in food preparation
 - e) Mono-unsaturated fats are better than saturated fats
 - f) Different osmotic solutions affect differently on cells.
 - g) Sucrose is more soluble in hot water than in cold water
 - h) Marasmus disorder can be prevented by proper nutrition
 - i) Fermented foods are healthier
 - j) Health conscious people are diverting towards bioactives.

SECTION-B

2. Being composed of same monomers *i.e.* glucose, starch is digestible while cellulose is indigestible by human beings, why?
3. Why Proteins precipitate at their isoelectric point?
4. Differentiate between pasteurization and sterilization of food.
5. Explain the role of micronutrients in our daily life.
6. Differentiate between balanced and modified diets.

SECTION-C

7. Write the RDA, dietary sources, functions and symptoms along with deficiency disease of the following in Tabular form:

Vitamin K, Mg, Vitamin C, Iron, Riboflavin.
8. Enlist the principles and methods of food processing and preservation. Explain preservation using radiation technique in detail.
9. Elaborate new trends in food science and nutrition.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.