



KERALA AGRICULTURAL UNIVERSITY
B.Tech.(Food Technology) 2020 Admission
IV Semester Final Examination-August 2022

Pafe.2219

Food Biochemistry and Nutrition (2+1)

Marks: 50
Time: 2 hours

I Fill in the blanks (10x1=10)

1. Enzymes are usually named by adding the suffix-ase to the main part of the name of the _____ on which they act.
2. A nucleotide consists of a sugar, a base and a _____.
3. When exposed to light, potatoes produce a toxin called _____.
4. _____ is the simplest carbohydrate.
5. _____ is a part of thyroid hormone and is essential for the prevention of goiter.

Match the following

- | Column A | Column B |
|---------------|---------------------|
| 6. Iron | a) Calciferol |
| 7. Vitamin A | b) saliva |
| 8. Amylase | c) Xerophthalmia |
| 9. Starch | d) oxygen transport |
| 10. Vitamin D | e) Rice |

II Write short notes on ANY FIVE of the following (5x2=10)

1. Discuss the functions of vitamin C.
2. What do you mean by urea cycle?
3. Which models are used to describe enzyme action?
4. What do you mean by the Recommended dietary allowances?
5. What are the types of Malnutrition?
6. State the functions of minerals.
7. How does Irradiation process affect the nutritional quality of foods?

III Answer ANY FIVE of the following (5x4=20)

1. Describe the methods of assessing nutritional status.
2. Discuss the advantages of fermentation of foods.
3. Give the classification of Lipid.
4. Explain the biological role of carbohydrates.
5. Write a note on Food fad and faddism.
6. Differentiate the terms Enrichment and Fortification of food.
7. Discuss the various factors affecting BMR.

IV Write an essay on ANY ONE of the following (1x10=10)

1. Explain the structural hierarchy of protein in detail.
2. Define Glycolysis pathway. Describe in detail.
