



KERALA AGRICULTURAL UNIVERSITY
B.Tech.(Food Technology) 2024 Admission
II Semester Final Examination – August 2025

FSQ 1202

Food Chemistry I (2+1)

Marks: 50
Time: 2 hours

I Match the following

(10x1=10)

- | | |
|--------------------------------|-------------------------|
| 1. Carbohydrate | i. Dextrose |
| 2. Lipase | ii. Enzyme |
| 3. Sucrose | iii. Invert Sugar |
| 4. Protein | iv. Ovaalbumin |
| 5. Tryptophan | v. Aromatic amino acid |
| 6. Water | vi. 104.5° |
| 7. Vit-D | vii. Fat soluble |
| 8. Particle size less than 1nm | viii. Solution |
| 9. Oil in water | ix. Emulsion |
| 10. Linolenic acid | x. Essential fatty acid |

II Write short notes on ANY FIVE of the following

(5x2=10)

1. Structure of water
2. Glycosidic Linkage
3. Disaccharides
4. Peptide bond
5. Hydrolytic rancidity
6. Free radicals
7. Reactions catalyzed by lypase

III Answer ANY FIVE of the following

(5x4=20)

1. Define carbohydrates. Classify with examples.
2. Function of dietary protein
3. Importance of dietary fiber
4. Classify proteins based on biological functions.
5. Enumerate the functions of lipids.
6. Write a note on Chemical modifications of proteins. Give examples.
7. Write a note on Structure of lipid.

IV Write an essay on ANY ONE of the following

(1x10=10)

1. Define amino acids. What are peptide bonds? Explain the different levels of protein structural organizations.
2. Define Lipids. Classify lipids with examples? Define fatty acids with examples. What is PUFA? Give examples.
