

ASSIGNMENT SET - V
Department of Nutrition

Mugberia Gangadhar Mahavidyalaya



Subject- Food Processing
Semester-I

Paper Code: BVFPS105

[Food Chemistry]

Answer all the questions

Unit-1

1. Briefly discussed the function of water. 4
2. Write a short note on structure of water molecule. 3
3. What do you mean hydrogen bonding? 2
4. Write a short note on properties of water. 3
5. Define water activity. 2

Unit-2

1. Write the composition of carbohydrates. 3
2. Discuss shortly the source and function of carbohydrates. 4
3. Define monosaccharide with a suitable example. 2
4. Define disaccharide with a suitable example. 2
5. Define oligosaccharide with a suitable example. 2

6. Define polysaccharide with a suitable example. 2
7. Briefly discuss gelatinization. 5
8. Briefly discuss retrogradation. 4

Unit -3

1. Briefly discuss the classification of protein. 3
2. Write the difference between essential and non-essential amino acids. 3
3. Define amino acid. 2
4. Briefly discuss physical and chemical properties of protein. 4
5. Write a short note on protein denaturation. 3
6. Write a short note on protein hydrolysis. 3
7. Define enzyme. 2
8. What do you mean enzyme specificity? 2
9. What is the factors effect on enzyme specificity? 3
10. Write a short note on mechanism of enzyme action. 4
11. What do you mean factors effecting enzyme activity? 4
12. Define controlling enzyme action. 3
13. What do you mean proteins with a suitable example? 2
14. What is the source and function of protein. 3

Unit-4

1. What do you mean fat? 2
2. Define structure of fat. 3
3. Write the composition of fat. 3
4. Write the source and function of fat. 4
5. Briefly discuss the classification of fat. 3
6. Write a short note on essential fatty acids. 3
7. Write a short note on fat hydrolysis. 4
8. Define hydrogenation of fat. 4

9. What do you mean emulsion and emulsifier? 3

Unit -5

1. Write a short note on Fat soluble vitamin. 5
2. Write the source and function of vitamin D. 5
3. Write the function of vitamin B12. 3
4. Write a short note on Calcium. 3
5. Briefly discussed the function of vitamin E. 3
6. Write a short note on effect of processing on vitamins. 5
7. Write a short note on vitamin C deficiency. 3