

ASSIGNMENT SET - IV
Department of Nutrition

Mugberia Gangadhar Mahavidyalaya



Subject- Food Processing
Semester-I

Paper Code: BVFPS105

[Food Chemistry]

Answer all the questions

Unit-1

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

Unit-2

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

6. Briefly discuss gelatinization. 5
7. Briefly discuss retrogradation. 4
8. Write the difference between gelatinization and retrogradation. 4

Unit -3

1. Define enzyme. 2
2. What do you mean enzyme specificity? 2
3. What is the factors effect on enzyme specificity? 3
4. Write a short note on mechanism of enzyme action. 4
5. What do you mean factors effecting enzyme activity? 4
6. Define controlling enzyme action. 3
7. Write the name of enzymes which added to food during processing. 2
8. What do you mean browning reaction. 3
9. Write a short note on enzymatic browning and non-enzymatic browning. 3
10. Write a difference between enzymatic browning and non-enzymatic browning. 4
11. Write the advantages and disadvantages of browning reaction. 3
12. Define factors effecting browning reaction. 4

Unit-4

1. Write a short note on essential fatty acids. 3
2. Write a short note on fat hydrolysis. 4
3. Define hydrogenation of fat. 4
4. What do you mean emulsion and emulsifier? 3
5. What do you mean saponification value? 2
6. Define acid value and iodine value. 4
7. What do you mean smoke point? 2
8. Define Reichert-Meissl number. 2
9. Write a short note on Cholesterol and phospholipids. 5

Unit -5

1. Write a short note on water soluble vitamin. 5
2. Write the source of vitamin C. 3
3. Define antioxidants. 2
4. Write the function of vitamin K. 3
5. Write a short note on Iron and Iodine. 5
6. Briefly discussed the function of vitamin A. 3