ASSIGNMENT SET - II Department of Nutrition

Mugberia Gangadhar Mahavidyalaya



Subject- B.Voc. in Food Processing

Semester-I

Paper Code: BVFPS105T

[FOOD CHEMISTRY]

Answer all the questions

Unit-1

- 1. Why hard water is not used for washing clothes?
- 2. Why does ice float on water?
- 3. List the unusual properties of water.
- 4. Write notes on drinking water and mineral water.
- 5. Write the role of hydrogen bonding in water.
- 6. Why rivers do not freeze from the bottom up?
- 7. Define the following terms. a) Hard water b) Soft water c) Portable water.
- 8. Give a detailed account on chemical and physical properties of water.

Unit-2

- 1. Write the difference between gelatinization and retrogradation.
- 2. Write a short note on dextrinization.

3. What do you mean qualitative quantitative tests of carbohydrate? Explain it with your own words?

Unit -3

- 1. Write a short note on enzymatic browning and non-enzymatic browning.
- 2. Write a difference between enzymatic browning and non-enzymatic browning.
- 3. Write the advantages and disadvantages of browning.
- 4. What do you mean factors effecting enzyme activity?

Unit-4

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

Unit -5

- 1. What is beriberi?
- 2. What are two active forms of niacin?
- 3. What are the two coenzyme derivatives of riboflavin?
- 4. Name the active form of vitamin Bs that occurs in our body.
- 5. Which compounds/conditions lead to the destruction of vitamin E?
- 6. What is a Couriering system?
- 7. Write down the chemical name of vitamin A. What factors lead to its destruction?
- 8. Which vitamin is required for normal reproduction? List a few foods rich in the vitamin of the vitamins B₁, B₂ and B₃, which is the most stable one?

- 9. Which vitamin is required for normal vision? Why beta-carotene is called provitamins A? List a few foods rich in beta-carotene.
- 10.List any two properties of vitamin D to indicate that it is much more stable vitamin than vitamin A.
- 11.What is the chemical nature of ascorbic acid? Why it has reducing property? List a few foods rich in ascorbic acid
- 12. What are the roles of vitamin B_{12} in the human system? List a few dietary sources of the vitamin.

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