

**QP Code : 77898**

(2½ Hours)

[Total Marks : 60

- N.B. : (1) All questions are compulsory.  
(2) Use of non programable calculator is allowed.  
(3) Figures to right indicate full marks.

1. (A) Attempt any two of the following :—
- I. Explain Blood clotting with reference to principles involved in it.
  - II. List the fat soluble vitamins. Explain the procedure of estimation of vitamin C.
  - III. Discuss the principle and procedure for estimation of uric acid in serum..
  - IV. Explain the role of calcium and iodine in human physiology.
- (B) "Estimation of cholesterol in blood is instrumental in prediction of disorders" Justify. 4  
OR  
(B) Discuss the role of vitamin B complex in human diet. 4
2. (A) Attempt any two of the following :— 8
- I. What are carbohydrates ? How are they classified ?
  - II. Describe the principle and application of RIA.
  - III. Write a note on enzymes with emphasis on its properties and classification.
  - IV. Explain the glucoseoxidase method for estimation of glucose.
- (B) Describe the main feature of antigen antibody interactions. 4  
OR  
(B) Discuss the principle and procedure for estimation of fats. 4
3. (A) Attempt any two of the following :— 8
- I. What is food deterioration ? Explain any two factors affecting it.
  - II. What is food legislation ? Give the need of it in food industry.
  - III. Explain the term 'fuel value' of food. Describe the principle of method used for its determination.
  - IV. "Use of chemical preservatives is an effective method for food preservation":  
Justify
- (B) Write a short note on "Pasteurization". 4  
OR  
(B) Discuss the packaging materials used for cheese and milk powder. 4

4. (A) Attempt any two of the following :—

- I. Discuss the method for estimation of lactose in milk.
- II. List the components of tea. Add a note on ash content of it.
- III. Explain the principle and method for the determination of iodine value.
- IV. How are pesticide residues detected in food ? Give the significance of detection of same.

(B) Explain the method for estimation of zinc in canned foods.

OR

(B) Give the composition of honey. Add a note on common adulterants present in honey

5. Attempt any four of the following :—

- I. How is creatinine estimated from blood ?
- II. Describe the method for estimation of blood glucose.
- III. Write a short note on Fluoroimmunoassay.
- IV. What are amino acids? Describe their classification.
- V. Give the properties of ideal packaging material.
- VI. What is food processing? Explain the need of it.
- VII. Explain the method for estimation of gluten content of wheat flour.
- VIII. How is colouring matter in food detected and estimated ?