

**(DFN01)**

**ASSIGNMENT - 1**

**M.Sc. DEGREE EXAMINATION, MAY - 2019**

**First Year**

**FOOD & NUTRITIONAL SCIENCE**

**Fundamentals of Food and Nutrition**

**MAXIMUM : 30 MARKS**

**ANSWER ALL QUESTIONS**

- Q1)** a) Explain the terms health and malnutrition. Write about edible portion of food and their calorific values with examples.
- b) Explain the latest concepts in dietary recommendations according to ICMR. What are its uses and limitations?
- Q2)** a) What are Carbohydrates? Write the food sources and classification of Carbohydrates by taking suitable examples.
- b) What are saturated and un-saturated fatty acids? Give examples. Write their importance and biological functions.
- Q3)** a) What are Fat Soluble Vitamins? Write the Food sources and functions of Vitamin A and K.
- b) Write the symptoms of deficiencies of Vitamin B and C. Explain the sources and biological functions of Vitamin B and C.

**(DFN01)**

**ASSIGNMENT - 2**

**M.Sc. DEGREE EXAMINATION, MAY - 2019**

**First Year**

**FOOD & NUTRITIONAL SCIENCE**

**Fundamentals of Food and Nutrition**

**MAXIMUM : 30 MARKS**

**ANSWER ALL QUESTIONS**

- Q1)** a) Write the biological functions of Calcium and Phosphorous. What are the food sources for Calcium and Phosphorous?
- b) Explain the food sources and biological functions of Chromium and Iodine.
- Q2)** a) Discuss the role of RDA in spreading the food and nutrition programmes.
- b) Discuss the nutrient deficiency diseases by taking specific examples and suggest remedial methods.



**(DFN02)**

**ASSIGNMENT - 1**

**M.Sc. DEGREE EXAMINATION, MAY - 2019**

**First Year**

**FOODS & NUTRITIONAL SCIENCE**

**Nutritional Biochemistry**

**MAXIMUM : 30 MARKS**

**ANSWER ALL QUESTIONS**

- Q1)** a) Explain the mechanism of oxidation of Glucose by glycolysis. Add a note on Gluconeogenesis.
- b) Write the biosynthesis of lipids and their metabolism.
- Q2)** a) Explain mineral metabolism.
- b) Discuss the role of minerals in metabolism.
- Q3)** a) Discuss the utilization of vitamins by the human body.
- b) Discuss the role of vitamins in metabolism.

**(DFN02)**

**ASSIGNMENT - 2**

**M.Sc. DEGREE EXAMINATION, MAY - 2019**

**First Year**

**FOODS & NUTRITIONAL SCIENCE**

**Nutritional Biochemistry**

**MAXIMUM : 30 MARKS**

**ANSWER ALL QUESTIONS**

- Q1)** a) Explain the classification of enzymes with suitable examples. State and explain MM equation.
- b) What is meant by enzyme inhibition? Explain the factors influencing enzyme inhibition.
- Q2)** a) Explain human immunity system. Write about infection and immunity interaction.
- b) Write in detail about Electron Transport Chain.



**(DFN03)**

**ASSIGNMENT - 1**

**M.Sc. DEGREE EXAMINATION, MAY - 2019**

**First Year**

**FOOD & NUTRITIONAL SCIENCE**

**Functional Foods**

**MAXIMUM : 30 MARKS**

**ANSWER ALL QUESTIONS**

- Q1)** a) Discuss the general market scenario of the health foods.
- b) Give an account on the Indian Market Potential on healthy foods.
- Q2)** a) What are Hyper nutrition foods? Write about the sources for protein powders. What are the merits and demerits of these foods?
- b) Write about different types of Fats. Explain Fat free foods and low cholesterol oils.
- Q3)** a) What are nutraceuticals? Write about the sources and processing of nutraceutical products.
- b) Write about the diabetic nuts and confectionaries explain the preparation of sugar free foods.

**DFN03)**

**ASSIGNMENT - 2**

**M.Sc. DEGREE EXAMINATION, MAY - 2019**

**First Year**

**FOOD & NUTRITIONAL SCIENCE**

**Functional Foods**

**MAXIMUM : 30 MARKS**

**ANSWER ALL QUESTIONS**

- Q1)** a) Discuss the need and importance of sugar free foods. Explain the nutritional implications of sugar free products.
- b) Discuss the current market trend of artificial sweeteners and their therapeutic applications.
- Q2)** a) Give an account on the need and importance of food technology.
- b) What are modified foods? Discuss the implications of genetically modified foods by taking examples.



**(DFN04)**

**ASSIGNMENT - 1**

**M.Sc. DEGREE EXAMINATION, MAY - 2019**

**First Year**

**FOOD & NUTRITIONAL SCIENCE**

**Institutional Foods Service Management**

**MAXIMUM : 30 MARKS**

**ANSWER ALL QUESTIONS**

- Q1)** a) Write about various types of Hotels, restaurants and fast food centres.
- b) Explain the food services available at old age homes and students' Hostels.
- Q2)** a) Give an account on the basic infrastructure and layout plan of Restaurant and the design of Kitchen.
- b) Discuss the operation and maintenance of Equipment in Star Hotels.
- Q3)** a) Explain the food safety in hostels and hospitals.
- b) Discuss the healthy and hygienic aspects in Mass distribution programmes.

**(DFN04)**

**ASSIGNMENT - 2**

**M.Sc. DEGREE EXAMINATION, MAY - 2019**

**First Year**

**FOOD & NUTRITIONAL SCIENCE**

**Institutional Foods Service Management**

**MAXIMUM : 30 MARKS**

**ANSWER ALL QUESTIONS**

- Q1)** a) Explain the principles of cost controlling and price fixing of food items in hotels.
- b) Discuss the inservice training skills required to personal working in Food Service Systems.
- Q2)** a) Discuss the food catering services in Sea Transport and Rail Transport.
- b) Explain the Book Keeping and accounting in the Food Catering Management.

