

(DFN01)

Total No. of Questions : 5]

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M.Sc. DEGREE EXAMINATION, DEC. – 2016

First Year

FOODS & NUTRITIONAL SCIENCE

Fundamentals of Food and Nutrition

Time : 3 Hours

Maximum Marks : 70

Answer All questions choosing one from each Unit (5 × 14 = 70)

UNIT - I

Q1) a) What is balanced diet? How malnutrition effects the health?

OR

b) Explain the latest recommendations of ICMR on nutrient requirements and their uses.

UNIT - II

Q2) a) Define carbohydrates and write their classification with examples. Explain the functions of carbohydrates in the human biological system.

OR

b) Explain the composition and classification of proteins. Write about essential and non-essential proteins.

UNIT - III

Q3) a) Explain the sources and functions of vitamin A and K. Write about the symptoms and diseases caused by vitamin A and K.

OR

b) What are water soluble vitamins? Explain the sources and functions of vitamin B and vitamin C. Write about the diseases caused by the deficiency of vitamin 'B' and 'C'.

UNIT - IV

Q4) a) What are Macro minerals? Explain the sources and biological functions of sodium and calcium.

OR

b) Explain the assessment of requirements of Micro minerals to the human body. Discuss the importance of cobalt, iron and fluorine.

UNIT - V

Q5) a) Discuss the Aims and objectives of nutrition programmes organized in India.

OR

b) Discuss the role and objectives of WHO in the implementation of food nutrition programmes.



(DFN02)

Total No. of Questions : 5]

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M.Sc. DEGREE EXAMINATION, DEC. – 2016

First Year

FOODS & NUTRITIONAL SCIENCE

Nutritional Biochemistry

Time : 3 Hours

Maximum Marks : 70

Answer All questions choosing one from each Unit
Each questions carries 14 marks.

(5 × 14 = 70)

UNIT - I

Q1) a) Explain urea cycle in detail.

OR

b) Explain HMP pathway in detail.

UNIT - II

Q2) a) Discuss the micro nutrient metabolism. Write about the biosynthesis of proteins.

OR

b) Describe the role of minerals in metabolism. Write the interrelationship between lipid and proteins.

UNIT - III

Q3) a) Explain vitamin metabolism in detail.

OR

b) Explain the utilization of micro nutrients metabolism in detail.

UNIT - IV

Q4) a) Explain IUB classification and MM equation

OR

b) Explain infection and immunity interactions with suitable examples.

UNIT - V

Q5) a) Explain Electron Transport chain in biological system.

OR

b) Explain biochemical oxidation-reduction reactions with suitable examples.

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(DFN03)

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M.Sc. DEGREE EXAMINATION, DEC. – 2016

First Year

FOODS & NUTRITIONAL SCIENCE

Functional Foods

Time : 3 Hours

Maximum Marks : 70

Answer All questions choosing one from each Unit

Each question carries 14 marks

(5 × 14 = 70)

UNIT - I

Q1) a) Discuss the Indian Market potential on functional health foods.

OR

b) What are functional foods? Discuss the merits and demerits of the functional foods.

UNIT - II

Q2) a) Describe the methods of extraction of proteins of oil seeds.

OR

b) Explain the properties and applications fat free powders and their nutritional aspects.

UNIT - III

Q3) a) Explain the classification of nutraceuticals. Write the therapeutic applications of nutraceuticals.

OR

b) Write the uses of fiber rich foods and their nutritional values. Mention its implications.

UNIT - IV

Q4) a) Discuss the role and importance of Dietary supplements in the health aspects.

OR

b) What are non-nutritive sweeteners and artificial sweeteners? Discuss their uses and implications with respect to nutritional values.

UNIT - V

Q5) a) How Biotechnology is useful in food quality improving and nutrition values.

OR

b) Discuss the gene modification technology in food items. Write its merits and demerits.



(DFN04)

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M.Sc. DEGREE EXAMINATION, DEC. – 2016

First Year

FOODS & NUTRITIONAL SCIENCE

Institutional Foods Service Management

Time : 3 Hours

Maximum Marks : 70

Answer all questions choosing one from each unit
Each question carries 14 marks

(5 × 14 = 70)

UNIT - I

Q1) a) Discuss the need and importance of Food Service Industry.

OR

b) Write about the Management of various types of Hotels and Motels.

UNIT - II

Q2) a) Discuss the welfare and safety in Hostels and old aged Homes.

OR

b) Explain the selection and classification of equipment in Institutional Food Services.

UNIT - III

Q3) a) Discuss the plan of kitchen spaces and storage spaces in food service organisation.

OR

b) Discuss the laws governing Food services governing in public catering and sanitation services.

UNIT - IV

Q4) a) Discuss the Food Catering Services in Railways and Airlines.

OR

b) Discuss the Food Catering Services in Hospitals and Temples and mass feeding programmes.

UNIT - V

Q5) a) Discuss the scope of Financial management in Food Service Organizations.

OR

b) Discuss the monitoring work of employees, facilities and benefits in Food Service Management.

