Exam Code: 1319 Sub. Code: 46326

Max. Marks: 40

2124

B. Voc. (Food Processing and Preservation) First Semester

Time allowed: 3 Hours

O1.

Q2

Q3

Q4

Q5

Q6

Q7

FPP-103: Nutrition and Food Chemistry

NOTE: Attempt five questions in all, including Question No. I which is compulsory and selecting one question from each Unit. X-X-X Attempt the following:a) What is meant by bioavailability of nutrients. b) Give structure of glycolipids. c) Enlist factors affecting enzyme efficiency. d) What is Urea cycle? e) Explain Maillard reaction. f) Explain coenzyme. g) Give general chemical composition of milk. h) What is thermal coagulation in eggs? (8x1)Unit I Discuss the major and minor constituents of food along with their sources and functions. (8) a) Describe saturated and unsaturated lipids along with example. b) Write short note on phospholipids. (5,3)UNIT - II Explain the classification of amino acids and their importance in nutrition. (8) Write short note on following a) Classification of enzymes. b) Types of Vitamins and their functions. (4,4)UNIT - III a) Explain oxidative and hydrolytic rancidity with their significance in food quality. b) Explain caramelization with example. (5,3)

a) Explain gelatinisation and retrogradation of starches.

b) Discuss protein denaturation and its implications in food processing.

(4,4)

Sub. Code: 46326

(2)

UNIT - IV

a) Describe the changes milk undergoes during heat processing.
b) Explain the structure and composition of eggs. (4,4)

Q9
a) Explain role of wheat gluten proteins in food products.
b) What are food additives? Explain their types and roles in food preservation. (4,4)

x-x-x