Exam Code: 1319

Sub. Code: 9245

2122

B. Voc. (Food Processing and Preservation)

First Semester

FPP-103: Nutrition and Food Chemistry

Time allowed: 3 Hours

IV.

Max. Marks: 40

NOTE: Attempt five questions in all; including Question No. I which is compulsory and selecting one question from each Unit.

	•	x-x-x	\$ <u></u>	
I.	Answer the following:-			
	a) What are major constituents of food?			
	b) Explain unsaturated lipids			
	c) What are coenzymes.			
	d) Give functions of vitamins			
	e) Explain Maillard reaction			
	f) What is Gelatinization?			
	g) Name major disaccharide found in milk.			
	h) What is thermal coagulation of egg?			(8x1)
II.	UN Explain the following:-	IIT - I		je.
	a) Food sources of carbohydrates			
	b) Glycoproteins			(4,4)
III.	a) What is importance of water in food?			<i>'</i> .
	b) Explain properties and functions of phospholipids			(3,5)
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a) Explain the factors affecting enzyme activity b) Explain types and function of minerals in food (4,4)

a) Explain urea cycle V. b) Discuss classification of amino acids (4,4)

P.T.O.

(5,3)

(2)

UNIT - III

VI. a) Explain oxidative and hydrolytic rancidity
b) Write short note on protein denaturation and its importance in food industry? (4,4)

VII. Write short note on following:a) Caramelization
b) Retrogradation of starches (4,4)

UNIT - IV

VIII. a) Explain the changes occurring in milk during heat processing
b) Explain wheat gluten protein (5,3)

IX. a) Explain foaming and emulsification of eggs

x-x-x

b) Write short note on food additives