Exam.Code:1301 Sub. Code: **9508**

1127

B.Voc. (Food Processing and Preservation) First Semester BFP-103: Food Biochemistry (OLD)

Time allowed: 3 Hours

Max. Marks: 60

(6x2)

NOTE: Attempt <u>five</u> questions in all, including Question No. I which is compulsory and selecting one question from each Unit.

x-*x*-*x*

I. Explain the following:-

Write short note on

- a) Water activity
- b) Sorption isotherms
- c) Cyclodextrins
- d) Rancidity of fats
- e) Secondary structure of protein
- f) Micro and macro nutrients

UNIT – I

11.	white short hote on	
	a) Importance of water in foods	
	b) Classification of carbohydrates with example	
	c) Structure of Glucose	(3,6,3)
III.	Describe four chemical properties of carbohydrates with example.	(12)
	<u>UNIT – II</u>	
IV.	a) Give structure of starcli and cellulose.	
	b) Write short note on malto-dextrins.	(8,4)
V.	a) Explain properties of pectin gums.	
	b) What are dietary fiber?! Explain with example.	(7,5)
	<u>UNIT – III</u>	
VI.	a) What are saturated and unsaturated fatty acids? Explain with examples.	
	b) Give structure and function of phospholipids.	(7,5)

Write short notes on:-	
a) Auto oxidation of fatty acids	
b) Antioxidants	
c) Confectionary Fats	(3x4)
<u>UNIT – IV</u>	
a) Explain in detail structure and chemistry of amino acid.	
b) Give significance of proteins in food.	(9,3)
What are enzymes? Explain their classification and role in food industry.	(12)
	 a) Auto oxidation of fatty acids b) Antioxidants c) Confectionary Fats <u>UNIT – IV</u> a) Explain in detail structure and chemistry of amino acid. b) Give significance of proteins in food.

x-x-x