Exam. Code: 1321 Sub. Code: 9262

2032

B. Voc. (Food Processing and Preservation) 3rd Semester FPP-304: Food Analysis: Tools and Techniques

Time allowed	: 3 Hours Max. Mark	s: 40
NOTE:	Attempt <u>five</u> questions in all, including Question No. I which is compulsor selecting one question from each Unit.	y and
I.		
1 _ĝ	Attempt the following:- (a) What is fortified milk?	
	(b) What is SEM and TEM? Give one application of each.	
	(c) Define electrophoresis and centrifugation.	
	, ,	(4×2)
<u>UNIT – I</u>		
II.	(a) Discuss the water holding capacity of food items and its significan	ce.
•••		(4+4)
III.	Explain the qualitative methods for microbial enumeration.	(8)
<u>UNIT – II</u>		
IV.	Discuss the principle and application of thin layer chromatography.	(8)
V.	Describe the principle and application of Bright field microscopy.	(8)
<u>UNIT – III</u>		
VI.	How electrophoresis can be used to detect contaminants in food items?	(8)
VII.	Write short notes on: -	
	(a) Radiations	
		(4+4)
	<u>UNIT – IV</u>	
VIII.	What is LC-MS? Discuss in detail the role and application of HPLC in	
	analysis.	(8)
IX.	Write a note on: -	
	(a) PCR	
	(b) ELISA	(4+4)

**_*_