000596

PRN:		Course Code :	U25PC301

Second Year B.Sc. End Semester Examination Winter 2024

Food Analysis

Day and Date: Fri 22 NOV 2024 Max Marks: **50**

Time : 10:30AM To 12:30PM Duration: **02** hrs

Instructions: All questions are compulsory.

			Marks	Bloom's Level	CO
Q.1		**Attempt the following**			
	a)	Molar solution contains how much mole of solute?	02	L1	CO1
	b)	Which analysis is used to determine the nutritional composition of food?	02	L1	CO2
	c)	Calorimetry and spectrophotometry are which type of technique?	02	L1	CO3
	d)	Electrophoresis is used to separate which particles.	02	L1	CO4
	e)	Gas-Liquid chromatography is which type of chromatography?	02	L1	CO5
Q.2		**Attempt any two from the following**			
	a)	Write a note on percent solution.	05	L2	CO1
	b)	Explain the methods of pH measurements.	05	L2	CO1
	c)	What is solution? Enlist and explain the types of solutions.	05	L2	CO1
Q.3		**Attempt any two from the following**			
	a)	Elaborate proximate analysis of foods.	05	L2	CO2
	b)	Enlist and explain methods of moisture analysis.	05	L2	CO2
	c)	Write a note on carbohydrate and its methods of estimation.	05	L2	CO2
Q.4		**Attempt any two from the following**			
	a)	Write a note on atomic spectrophotometry.	05	L3	CO3
	b)	Explain principle and working of calorimetry.	05	L2	CO3
	c)	Write a note on type of chromatography.	05	L3	CO5
Q.5		**Attempt any two from the following**			
	a)	Write a note on fluorimeter.	05	L3	CO4
	b)	Explain construction and working of flame photometer.	05	L2	CO4
	c)	Explain in detail about HPLC.	05	L2	CO5

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