



# LOYOLA COLLEGE (AUTONOMOUS), CHENNAI – 600 034

**M.Sc. DEGREE EXAMINATION – FOOD CHEMISTRY AND FOOD PROCESSING**

**THIRD SEMESTER – NOVEMBER 2023**

**PFP 3301 – FOOD BIOTECHNOLOGY**

Date: 09-11-2023

Dept. No.

Max. : 100 Marks

Time: 01:00 PM - 04:00 PM

## **PART – A**

**(10 x 3 = 30 Marks)**

<b>Q. No</b>	<b>Answer ALL questions</b>
1	Define fermentation.
2	Differentiate solid state fermentation and submerged fermentation.
3	Comment on algae as a nutraceutical agent.
4	Write any two nutritional benefits of Single Cell Protein.
5	What are mycotoxins?
6	What is meant by Biofortification?
7	Describe the cis genic products with suitable examples.
8	What are biogenic amines?
9	List the significance of bioreactor in the fermentation process.
10	Enumerate the nutritional value of micro and macro algae.

## **PART – B**

**(5 x 8= 40 Marks)**

**Answer ALL the questions**

11	(a)	Explain the types of bioreactors.	(8)
		<b>(OR)</b>	
	(b)	Explain the production process of chlorella and spirulina.	(8)
12	(a)	Describe the production of aromatic compounds through Solid state fermentation Technique.	(8)
		<b>(OR)</b>	
	(b)	Discuss the algal transgenics.	(8)
13	(a)	Enumerate the biotechnological applications of pre and probiotics.	(8)
		<b>(OR)</b>	
	(b)	Comment on mushroom cultivation.	(8)

