PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

BVoc DEGREE EXAMINATION DECEMBER 2023

(Third Semester)

Branch - FOOD PROCESSING TECHNOLOGY

FOOD MICROBIOLOGY AND FERMENTATION TECHNOLOGY

Time: Three Hours		Maximum: 50 Marks	
		SECTION-A (5 Marks) Answer ALL questions estions carry EQUAL marks (5 x 1 = 5)	
1	The most spoilage bacteria (i) Acidic pH (iii) Alkaline pH	grows at (ii) Neutral pH (iv) All of the above	
2	Rhozipus stolonifer is also (i) Dairy mold (iii) Bread Mold	(ii) Grain mold (iv) Meat Mold	
3	Listeriosis is caused by (i) Hepatitis A virus (iii) Norovirus	(ii) L.montocytogens (iv) E.coli	
4	Which of the following method quantitatively? (i) Streak-plate (iii) Spread-plate	can be used to determine the number of bacteria (ii) Pour plate (iv) Spread and pour plate	
5	Which of the following is a dov (i) Screening (iii) Product recovery	(ii) Media formulation	
		ECTION - B (15 Marks) Answer ALL Questions destions Carry EQUAL Marks (5 x 3 = 15)	
6	a Narrate the type of reproduction noticed in yeasts and bacteria OR b Tabulate any five the industrially important microorganisms and their applications		
7	a Outline the foods on the basis of their stability OR b Report on the types of food spoilage.		
8	a Give the list of microorganisms that cause food borne illness OR b Explain the symptoms and control measures in food borne illness caused		
	shigellaspp.	and conduct measures in rood bothe niness caused by	

9 a Write a note on the nutritional significance of fermentation.

OR

- b Outline the composition of media used for bacterial growth studies.
- 10 a Explain any one rapid method of detecting microbes.

OR

b Enlist the basic criteria followed for selection of bioreactors.

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

- 11 a Discuss in detail the extrinsic factors influencing the survival of microorganisms.
 - b Highlight on the different bacterial groups with their characteristics.
- 12 a Elaborate on the sources of food contamination.

OR

- b Give an account on spoilage of milk.
- 13 a Differentiate endotoxin and exotoxin.

OR

- b Explain in detail the cause, symptoms and treatment for gastroenteritis caused due to Clostridium perfringens.
- 14. a Discuss in detail the types of fermentation.

OR

- b Describe the concept and importance of Thermal inactivation of microbes.
- 15 a Give an account on the down streaming process.

OR

b Distinguish submerged culture and solid substrate fermentor.

Z-Z-Z

END