# PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

## **BSc DEGREE EXAMINATION MAY 2025**

(Fifth Semester)

# Branch - NUTRITION, FOOD SERVICE MANAGEMENT AND DIETETICS

#### FOOD MICROBIOLOGY

	<u>FOOD M</u>	ICKOBIOLOGY	
Time:	Three Hours		Maximum: 50 Marks
	Answer	N-A (5 Marks) ALL questions arry EQUAL marks	$(5 \times 1 = 5)$
1	Choose the optimum aw of Penicila (i) 0.99 (iii) 0.98	lium sp. (ii) 0.97-0.99 (iv) 0.92	
2	What is termed to mycelium in mo (i) Whole mass of hyphae (iii) Whole mass of sterigma	(ii) Whole mass of sch	
3		es surface slime in mea (ii) <i>Moraxella</i> (iv) All the above	t.
4		1 by Shigella sonei. (ii) Dysentery (iv) Dizziness	
5	Identify the acronym of BOD.  (i) Biological Oxygen Demand  (iii) Biotic Oxygen Demand	(ii) Biochemical Oxyg (iv) Biological Oxyge	
SECTION - B (15 Marks)  Answer ALL Questions  ALL Questions Carry EQUAL Marks (5 x 3 = 15)			
6 a	Interpret the various modes of nutrition for Microorganisms. OR		
ь 7 а	Justify the food as a substrate for Microbial Growth.  Explain the Physiological Characteristics of Mold.		
<b>b</b> .	OR Classify algae.	•	
8 a	Examine the factors affecting the growth of microbes in foods.  OR		
b	Illustrate the contamination of I	Eggs.	Cont

Write a short note on Amoebiasis. 9 a

- Infer on Mucor food poisoning. b
- Identify the characteristics of anti-microbial chemical agent. 10 a

Discuss on Composition of Sewage. b

### SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$ 

(One Question from each unit)

- 11 a Write a detailed note on Virus with its morphology, classification and replication.
  - b Illustrate the morphology, classification and growth curve of Bacteria
- Elucidate the role of molds in food industry.

- Infer on Economic importance of Yeast.
- Assess on Contamination and Spoilage of Poultry.

- Criticize on Contamination and Spoilage of Cereal and its Products.
- 14 a Infer the causes, signs, symptoms and prevention of Anisakiasis.

- Analyze on the Food borne infections caused by Staphylococcus and Salmonella.
- 15 a Discuss on physical agents involved controlling microbial growth.

Evaluate on the steps involved in purification of municipal water supplies.

Z-Z-Z

**END**