PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2022

(Fifth Semester)

Branch - MICROBIOLOGY

FOOD MICROBIOLOGY

Time	: Three Hours		Maximum: 75 Marks
· ::::::::::::::::::::::::::::::::::::	SECTION-A (1 Answer ALL q ALL questions carry EQ	uestions	$(10 \times 1 = 10)$
1	Choose the closely related to Water activation (i) Relative humidity (iii) Water content	ity (aw). (ii) Moisture (iv) humidity	
2	What are the intrinsic factors for the micr (i) pH (iii) Oxidation-Reduction potential	robial growth? (ii) moisture (iv) all of these	
3	Find the low acid foods. (i) Pears (iii) Pumpkin	(ii) Lima beans (iv) Sauerkraut	
4	Define canning. (i) Preservation of food in refrigerator (ii) Preservation food with salt and spicy (iii) Preservation of food in sealed contain (iv) Preservation of food with chemical p	ner	
5	Which of the following is a homoferment (i) Lactobacillus brevis (iii) Lactobacillus fermentum	tative lactic acid (ii) <i>Lueconosto</i> (iv) <i>Lactobacilli</i>	c mesenteroids
6	Find the originated country of sauerkrau (i) Germany (iii) America	t. (ii) Engalnd (iv) Japan	
7	Mention the inactivation method of type- (i) Heat 5-6 minutes at 80C (iii) Dry on sunlight	B <i>Clostridium be</i> (ii) Heat 15 mir (iv) Heat 20 mir	utes at 90 C
8	Identify the isolation sources of aflatoxin (i) Peanut meal (iii) spoiled vegetables	. (ii) Raw fish (iv) dairy foods	
9	Mention the Effective germicide. (i) Chlorine (iii) Carbon dioxide	(ii) Phenol (iv) butane	
10	Identify the explanation of GMPs. (i) Genetically modified products (iii) Good maintaining practices		facturing product facturing practices

SECTION - B (35 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

 $(5 \times 7 = 35)$

11 a Summarize the Factors affecting ^aw requirements of microorganisms.

OR

- b Describe the oxidation-reduction potential.
- 12 a List out the methods of food preservation.

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- b Summarise the Canning procedure.
- 13 a Discuss the defects and spoilage of sauerkraut.

OR

- b What are the molds that grow on cheese and explain them?
- 14 a List out the objectives of the investigation of food poisoning out breaks.

OR

- b List out the foods are involved in causing out breaks of salmonella infections.
- 15 a comment on sanitizing process.

OR

b List out the types of food wastes.

SECTION - C (30 Marks)

Answer any **THREE** Questions

ALL Questions Carry EQUAL Marks

 $(3 \times 10 = 30)$

- Explain the classification and identification of Molds. Outline the industrial importance molds.
- 17 Discuss in detail about Pasteurization.
- 18 Outline some oriental fermentation foods.
- Point out the necessary condition for an outbreak of botulism and prevention of Botulism.
- 20 Explain the some food control agencies and their role.

Z-Z-Z

END