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# PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

## **MSc DEGREE EXAMINATION MAY 2023**

(Second Semester)

## Branch - CLINICAL NUTRITION AND DIETETICS

## MAJOR ELECTIVE COURSE – I: ADVANCED FOOD MICROBIOLOGY/ DISCIPLINE SPECIFIC ELECTIVE – I: FOOD MICROBIOLOGY

Tin	ne: T	hree Hours			Maximum: 50 Marks
·		ALL o	Answer AL	A (5 Marks) L questions EQUAL marks	$(5 \times 1 = 5)$
1	(1	ame the microorganis	m that cause cause (ii)		skin and throat.
2	(i	redox p produce energy. ) +300 to + 500mv ii) +100 to -250mv	otential anerol		l and possess the ability
3	(i)	he indicator organism  Salmonella  E.coli	(ii)	nination in water is Streptococcus Bacillus	•
4	(i)	ame the organism used  L.plantarum  A.oryzae	(ii)	on of sauerkraut. <i>L.mesenteroides B.natto</i>	
5	(1)	s per FSSAI the moist Not more than 4% i) Not more than 5%	(ii)	whole milk powder Not less than 5% Not less than 4%	should be
			SECTION - E Answer ALI Questions Carry		$(5 \times 3 = 15)$
		Discuss the characteristics and morphological features of mold.  OR  Prepare a table of food spoilage and pathogenic bacteria associated with foods.			
7 a	a	Explain the role of high temperature in arresting the microbial growth.  OR			
t 8 a		Show the antimicrobial constituents that affects the growth of microbes.  Classify the types of spoilage seen in canned foods.			
ŀ	)	OR Sketch the microbes responsible for spoilage of milk during handling and storage.			
9 a	ı .	Discuss the physical a	nd chemical ag	gents used for contro	ol of microorganisms.
1	b :	Explain the types of fe		th examples.	

#### 22CNP213B/18CNP13B

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10 a Enumerate the importance of food quality control.

OR

b Show the organizational structure of any one agency or organization related to quality assurance.

#### **SECTION -C (30 Marks)**

Answer ALL questions

ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$ 

11 a Appraise the degradation of proteins caused by microorganisms.

OR

- b Sketch the structure of virus and yeast.
- 12 a Report on the intrinsic factors affecting the growth of microorganisms.
  - b Evaluate the use of irradiation technique on control of microbes in foods.
- 13 a How will you assess the microbiological quality of water?

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- b Create a table for the spoilage of perishable foods.
- 14 a Explain in detail anyone of the food borne disease.

OR

- b Differentiate prebiotics, probiotics and symbiotics.
- 15 a Evaluate the need for HACCP in food industries.

OR

b Discuss about the documents required for reporting the quality of foods.

Z-Z-Z

**END**