TOTAL PAGES:

18FPB10

## PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

## **BVoc DEGREE EXAMINATION DECEMBER 2022**

(Second Semester)

## Branch - FOOD PROCESSING TECHNOLOGY

		<b>CHEMIST</b>	TRY - II		
•	Time: Three Hours	•	Ŋ	Maximum: 50 Marks	
		ECTION-A Answer ALL tions carry I		$(5 \times 1 = 5)$	
1.	The process of separation of	The process of separation of solid organic compounds is known as			
ı	(i) differential extraction		(ii) sublimation		
	(iii) crystallization		(iv) distillation		
2.	Identify in ascending paper	chromatogr	aphic technique th	ne solvent will rise only	
	in.		. <sup>-</sup>	•	
	(i) 8-9 (ii) 7-8	<b>3</b>	(iii) 6-7	(iv) 5-6	
3.	mineral plays an im	portant func	tion in a number of	of reproduction processes.	
•	(i) Copper (ii) Zir		(iii) Iodine	(iv) phosphorus	
4.	Choose an acidic amino aci	d from the fo	ollowing		
	(i) lysine	• •	(ii) cystine		
	(iii) aspartic acid		(iv) aminoacetic	e acid	
5.	Which is the most common	used coagul	ant?		
	(i) Coal (ii) Fer	ric sulphate	(iii) Limestone	(iv) Alum	
	Α	CTION - B nswer ALL stions Carry		$(5 \times 3 = 15)$	
6. į	a) Classify the methods of samp				
j	b) Explain the principle and pro	(OR)			
	2) Explain the centrifugation me		· ·		
		(OR)	· ·		
	) How will you locate the indiv				
	) Explain the structure—activity ) Outline the importance of min	(OR)		xidants.	
9. a	) How are enzymes classified?				
	Explain the role of RNA in pr				
0.a	Write notes on incineration an	d pyrolysis i	in solid waste mar	1agement	

(OR)

b) Outline the preliminary steps involved in the waste water treatment.

## SECTION -C (30 Marks)

Answer ALL questions ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$ 

11. a) Elucidate the extraction of organic compounds with examples.

b) Discuss the principle and process of distillation.

12. a) Elucidate the principle of chromatography and its classification.

- b) Discuss the principle and process of gas chromatography with neat diagram.
- 13. a) Discuss the possible mechanisms for antioxidant action.

- b) Summarize the various organic & inorganic preservatives.
- 14. a) Discuss the factors influencing the mechanism of enzyme action.

- b) Discuss the double helix structure of nucleic acids.
- 15. a) Analyse the classification of pollution and explain the types of pollutants.
  - b) Discuss the various steps involved in waste water treatment.

Z-Z-Z

**END**