

PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2025
(Third Semester)

Branch- MICROBIOLOGY

CHEMISTRY FOR MICROBIOLOGY

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry **EQUAL** marks

$$(10 \times 1 = 10)$$

Cont..

SECTION - B (35 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

 $(5 \times 7 = 35)$

Module No.	Question No.	Question	K Level	CO
1	11.a.	Explain the method of distillation under reduced pressure. (OR)	K2	CO1
	11.b.	Discuss Nanochemistry with an example.		
2	12.a.	Write a note on water-soluble vitamins and their role in the human body. (OR)	K3	CO2
	12.b.	Describe the conformations of ethane and account for its stability.		
3	13.a.	Discuss the need of fertilizers for plant growth. (OR)	K3	CO3
	13.b.	Explain the classification of insecticides based on their mode of action.		
4	14.a.	Briefly explain the preparation and uses of vanilla extract. (OR)	K3	CO4
	14.b.	Discuss the biological applications of nitrocellulose.		
5	15.a.	Explain the steps involved in the preparation of hides. (OR)	K3	CO5
	15.b.	Describe the structure and industrial uses of silicate adhesives.		

SECTION -C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks

 $(3 \times 10 = 30)$

Module No.	Question No.	Question	K Level	CO
1	16	Explain Fractional distillation 2 steam distillation methods for the purification of liquids.	K3	CO1
2	17	Explain the chair and boat forms of cyclohexane.	K4	CO2
3	18	Classify fertilizers based on their chemical nature and nutrient composition.	K3	CO3
4	19	Explain the polymerization process used in the production of polyurethane.	K4	CO4
5	20	Classify adhesives based on their chemical composition and give examples of each.	K3	CO5