

PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2025
(Fifth Semester)

Branch- MICROBIOLOGY

MAJOR ELECTIVE COURSE - I : PHARMACEUTICAL MICROBIOLOGY

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry **EQUAL** marks

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

Cont...

5	10	Which type of microorganism is most likely to spoil syrups and elixirs? a. Viruses b. Yeasts c. Protozoa d. Molds	K4	CO3
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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.	Describe the fundamental characteristics of viruses, viroids, and prions. (OR)	K2	CO1
	11.b.	Discuss the principles and methods of microbial cultivation.		
2	12.a.	Explain the principles of Microbial Pathogenicity and Epidemiology. (OR)	K2	CO2
	12.b.	Briefly discuss about the recovery and exit of pathogens.		
3	13.a.	Mention newer antibiotics for MRSA and Gram-positive cocci. (OR)	K2	CO2
	13.b.	Write a short note on antifungal antibiotics.		
4	14.a.	Define Healthcare-associated infections (HAIs). (OR)	K4	CO3
	14.b.	Write a short note on droplet and contact precautions.		
5	15.a.	Define microbial spoilage. What are the main causes of spoilage in pharmaceuticals? (OR)	K4	CO3
	15.b.	Write a short notes on the basic principles of preservation of medicines?		

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	Summarize how microorganisms are both useful and harmful in pharmaceutical contexts.	K2	CO1
2	17	Explain the manifestation of disease by different types of pathogens.	K2	CO2
3	18	Summarize the role of antimicrobial therapy in infection control.	K2	CO2
4	19	Describe the methods of prevention and control of healthcare-associated infections.	K4	CO3
5	20	Explain the principles of preservation of medicines using antimicrobial agents.	K4	CO3