

**PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)**

**BSc DEGREE EXAMINATION MAY 2025
(First Semester)**

Branch - BOTANY

MICROBIOLOGY

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	Who is known as the father of microbiology? a. Edwin John Butler b. Ferdinand Cohn c. Robert Koch d. Antonie van Leeuwenhoek	K1	CO1
	2	Antiseptic properties were first described by ----- a. Jenner c. Lister b. Pasteur d. Beijerinck	K2	CO2
2	3	Viruses are ----- a. Cellular organisms b. Non- cellular organisms c. Unicellular organisms d. Cellular without wall	K1	CO1
	4	Bacteriophage consists of ----- a. Carbon and Nitrogen b. DNA or RNA c. Nucleoprotein d. Protein and Lipid	K2	CO2
3	5	Bacteria are present everywhere except in ----- a. Ice b. Soil c. Sea water d. Distilled water	K1	CO1
	6	The flagella of bacteria are composed of ----- a. Protein b. Lipid c. Carbohydrate d. Amide	K2	CO2
4	7	All fungi are always----- a. Parasites b. Autotrophs c. Heterotrophs d. Saprophytes	K1	CO1
	8	The conidiophores of Albugo are ----- a. Club shaped and branched b. Clavate and Unbranched c. Peltate and branched d. Peltate and Unbranched	K2	CO2
5	9	The fruiting body of Aspergillus is called ----- a. Cleistothecium b. Hypanthodium c. Apothecium d. Perithecium	K1	CO1
	10	Fusarium is a fungus belonging to phylum----- a. Basidiomycota b. Ascomycota c. Deuteromycota d. Zygomycota	K2	CO2

SECTION - B (35 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	Explain the general characteristics of microorganisms.	K2	CO2
		(OR)		
	11.b.	Outline the different types of culture methods.		
2	12.a.	Organize the structure of TMV.	K3	CO3
		(OR)		
	12.b.	Identify the symptoms of viral diseases.		

Cont...

3	13.a.	Survey about bacterial nutrition and its types.	K4	CO4
	(OR)			
	13.b.	Simplify the ultra structure of bacterial cell.		
4	14.a.	Estimate the general characters of fungi.	K5	CO5
	(OR)			
	14.b.	Explain the reproduction of Aspergillus.		
5	15.a.	Build the economic importance of fungi.	K6	CO6
	(OR)			
	15.b.	Construct the different kinds of lichen.		

SECTION -C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks

(3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Interpret the contributions of Louis Pasteur and Robert Koch.	K2	CO2
2	17	Organize the structure and reproduction of Bacteriophage.	K3	CO3
3	18	Survey about bacterial growth and reproduction.	K4	CO4
4	19	Explain the life cycle of Saccharomyces.	K5	CO5
5	20	Elaborate the habit composition reproduction and economic importance of lichen.	K6	CO6

Z-Z-Z

END