

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2023

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	What is mean by Microbiology? (i) Study of molecules that are visible to human eyes (ii) Study of animals and their family (iii) Study of organisms that are not visible to naked eyes (iv) Study of microscope	K1	CO1
	2	What is the about in size of the bacterial cell? (i) 1mm in diameter (ii) 0.5 μ to 1.0 μ in diameter (iii) 2 mm in diameter (iv) 2 μ in diameter	K2	CO1
2	3	Which one is not a method by viruses enters a healthy host? (i) Meristem (ii) By vectors (iii) Infected fungal spores (iv) Through wounds	K1	CO2
	4	Which one is not a measure of prevent the viral infections? (i) Using healthy virus-free seeds (ii) Protection from insect vectors (iii) Using resistant varieties (iv) Antibiotics	K2	CO2
3	5	<i>Staphylococcus aureus</i> is which type of bacteria? (i) Mesophile (ii) Mesophile and psychrophile (iii) Psychrophile (iv) Thermophil	K1	CO3
	6	Growth of microorganisms refer to (i) changes in the total population (ii) an increase in number of cells (iii) an increase in the size of an individual organism (iv) an increase in the mass of an individual organism	K2	CO3
4	7	Which division of fungi lacks flagella? (i) Mastigomycota (ii) Amastigomycota (iii) Gymnomycota (iv) Basidiomycetes	K1	CO4
	8	Fruiting bodies of slime moulds are called as (i) acervulus (ii) sori (iii) apothecium (iv) perithecium	K2	CO4

Cont...

5	9	In lichens, sexual reproduction is carried out by (i) algae (ii) fungi (iii) both algae and fungi (iv) fungi only	K1	CO5
	10	The major group of algae involved in lichen formation is (i) green algae (ii) brown algae (iii) red algae (iv) blue green algae	K2	CO5

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.	Write short notes on Robert Koch.	K1	CO1
		(OR)		
	11.b.	Describe micro flora of water.		
2	12.a.	Explain about viral disease.	K1	CO2
		(OR)		
	12.b.	Explain the structure of TMV.		
3	13.a.	Explain critically the nutritional requirements of microorganisms.	K1	CO3
		(OR)		
	13.b.	How do you measure the bacterial growth?		
4	14.a.	Explain the asexual reproduction of <i>Albugo</i>	K2	CO4
		(OR)		
	14.b.	Explain the structure of <i>Aspergillus</i> .		
5	15.a.	Enumerate the asexual reproduction of <i>Alternaria</i>	K2	CO5
		(OR)		
	15.b.	Explain the composition of lichens.		

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	Describe the types of microbial medium and its methods of culture.	K6	CO1
2	17	Elucidate the different stages of the lytic cycle of T4 phage.	K5	CO2
3	18	Explain about bacterial growth curve.	K5	CO3
4	19	Describe reproduction of <i>Agaricus</i> .	K5	CO4
5	20	Enumerate the economic importance of fungi.	K6	CO5