

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2022
(First Semester)

Branch – BOTANY

MICROBIOLOGY

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (5 x 1 = 5)

1. Which of the following is a helical virus?
(a) Herpes virus (b) Poxvirus
(c) T4 phage (d) TMV
2. What is a cluster of polar flagella called?
(a) Monotrichous (b) Lophotrichous
(c) Amphitrichous (d) Petritrichous
3. Which one of the following is used in the preparation of alcohol?
(a) Saccharomyces (b) Lactobacillus
(c) Acetobacter (d) Penicillium
4. Tikka disease in groundnut is caused by
(a) *Agaricus* (b) *Rhizopus*
(c) *Cercospora* (d) *Albugo*
5. What is the most common food preservation method?
(a) Freezing (b) Heating
(c) Fermentation (d) Dehydration

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks (5 x 3 = 15)

6. (a) State the contribution of Robert Koch.
(OR)
(b) Explain the general characteristics of viruses.
7. (a) How will you classify the bacterial flagella.
(OR)
(b) Explain about mesosomes.
8. (a) Outline the Alexopoulos classification of fungi.
(OR)
(b) Explain the asexual reproduction of *Albugo*.
9. (a) Narrate the symptoms of Tikka disease.
(OR)
(b) Explain the composition of lichens.
10. (a) Describe briefly about food microbiology:
(OR)
(b) Explain the food borne infection.

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

11. (a) Discuss the microorganism distribution in various environments.
(OR)
(b) Elucidate the different stages of the lytic cycle of T4 phage.
12. (a) Explain about bacterial growth curve.
(OR)
(b) Explain in detail the ultrastructure of bacterial cell.
13. (a) Elucidate the asexual reproduction of yeast.
(OR)
(b) Enumerate the economic importance of fungi.
14. (a) Point out the various strategies to control the diseases in wheat and groundnut.
(OR)
(b) Elucidate the reproduction in lichens and mention their importance.
15. (a) Discuss about food preservation.
(OR)
(b) Explain (i) Intoxicants and (ii) Gastroenteritis.

Z-Z-Z

END