

(FOR THE CANDIDATES ADMITTED
DURING THE ACADEMIC YEAR 2020 ONLY)

20UBY508

REG.NO.:

N.G.M.COLLEGE (AUTONOMOUS) : POLLACHI

END-OF-SEMESTER EXAMINATIONS: DECEMBER-2022

COURSE NAME: B.Sc.-BOTANY

MAXIMUM MARKS: 70

SEMESTER: V

TIME : 3 HOURS

PART - III

MICROBIOLOGY AND PLANT PATHOLOGY

SECTION -A (10X1=10 MARKS)

ANSWER ALL THE QUESTIONS.

MULTIPLE CHOICE QUESTIONS. (K1)

1. Name the presence of cluster of polar flagella called _____.
a) Pretrichous b) Monotrichous c) Amphitrichous d) Lophotrichous
2. Recall the protein coat of the viruses that enclose the genetic material is _____.
a) Virion b) Capsid c) Capsomeres d) Peplomeres
3. Tell the antibiotics act against _____.
a) Bacteria b) Viruses c) Pnematodes d) All microbes
4. Pasteurization was discovered by _____.
a) Samuel W. Francis b) Sir Louis Pasteur c) Bennett d) Robert Hook
5. Citrus canker is a _____.
a) Bacterial disease b) Fungal disease c) viral disease d) Algal disease

ANSWER THE FOLLOWING IN ONE OR TWO SENTENCES. (K2)

6. Define broth.
7. Differentiate Virion with Virus.
8. What is Vaccine?
9. Expand MPN.
10. What are Pathogens?.

SECTION- B (5X4=20 MARKS)

ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS. K3

11. a) Describe bacteria based on morphology.
(OR)
- b) List the economic importance of bacteria.

(CONTD.....2)

12. a) Mention the characters of viruses.
(OR)
b) Write short transmission and reproduction of HIV.

13. a) Describe, how to produce ethanol through fermentation?
(OR)
b) Assess the Chemotherapy with an example.

14. a) How will you find food spoilage and poisoning?
(OR)
b) Describe the methods of Citric acid production.

15. a) Write the classification of plant diseases.
(OR)
b) Examine the causal organism and control measures of Tik

SECTION - C (4 X 10 = 40 MARKS)

ANSWER ANY FOUR OUT OF SIX QUESTIONS.

**(16th QUESTION IS COMPULSORY AND ANSWER ANY THREE QUESTIONS
(FROM Qn. No : 17 to 21) (K4 (Or) K5).**

16. Explain the methods of pure culture technique.
17. Analyze the mode of reproduction of bacteria.
18. Describe the structure and reproduction of TMV.
19. Construct the methods of antibiotics production in industry? Write with suitable example.
20. Summarize microbial flora of soil and its importance.
21. Write the symptoms, causative organism and controlling measures of paddy blast and red rot of sugarcane.
