QP Code: U25C027

Reg. No : .....
Name : .....

ST MARY'S COLLEGE (AUTONOMOUS), THRISSUR-20

III SEMESTER (FYUGP) DEGREE EXAMINATIONS, OCTOBER 2025
BTY3MN202 : MICROBIAL TECHNOLOGY
2024 Admission Onwards
(Credits: 4)

Time: 2 Hours **Maximum Marks: 70**

Section A

*Answer **all**. Each question carries **3** Marks* ***(Ceiling: 24 Marks)***

1. Define bioprospecting.
2. Compare microbial production of bioethanol and biohydrogen.
3. Compare prebiotics and probiotics.
4. Define GMO's.
5. What is PGPR.
6. Name two microrganisms commonly used in industrial microbiology.
7. How can you examine therapeutic approaches using microbial agent?
8. List out the functions and importance of biofertilizers.
9. Comment on microbial based immunotherapies.
10. What would be the result, if we don't have microbial technology?

Section B

*Answer **all**. Each question carries **6** Marks* ***(Ceiling: 36 Marks)***

11. How can you show your understanding on mechanism and resistance of antibiotics?
12. Discuss applications of aerobic digestion in solid waste treatment.
13. Describe the microbial role in methanogenesis.
14. What details would you use to support for drug discovery from microbes?
15. Compare short-term and long-term microbial preservation.
16. Explain microbial fuel cells and their uses.
17. How can you make a distinction between bio-pesticides and bio-fertilizers?
18. Discuss sustainability challenges of microbial bioenergy.

Turn Over

Section C

*Answer **any one**. Each question carries **10** Marks* ***(1x10=10marks)***

19. Analyze microbial processes in biodegradation and remediation of toxic wastes.
20. How would you summarize role of microbes in diagnosis and monitoring of diseases?

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