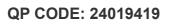
#### Part B

Answer any six questions.

Each question carries 5 marks.





Reg No : ..... Name 2 .....

# **B.Sc DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE EXAMINATIONS, MAY 2024**

### **Second Semester**

B.Sc Biotechnology Model III

# Complementary Course - MB2CMT02 - MICROBIOLOGY - FUNDAMENTALS OF **MICROBIOLOGY - II**

2017 ADMISSION ONWARDS

7A186688

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Time: 3 Hours

Max. Marks: 60

Part A

Answer any ten questions. Each question carries 1 mark.

- 1. What is MacConkey agar?
- What is stab culture? 2.
- 3. Define Sanitization.
- 4. Note on Phenol coefficient.
- 5. Define antibiotics.
- 6. Write about Autotrophs.
- Write about Heterotroph. 7.
- 8. Define organotrophs.
- Define fermentation. 9.
- 10. Write about pentose phosphate pathway.
- 11. Which is the experimental microorganism of transduction?
- 12. What is F prime factor?





- 13. Classification based on nutritional requirement of bacteria.
- 14. Write a note on sterilisation and its control method of Moist Heat Sterilization.
- 15. Note on microbial control by Radiations and its Types.
- 16. Note on Disk diffusion test.
- 17. Write Role of temperature in bacterial growth.
- 18. Describe briefly Growth curve.
- 19. TCA cycle and its significance.
- 20. How are R plasmids involved in the transmission of drug resistance.
- 21. Misuse of drugs leads to drug resistance, justify.

(6×5=30)

#### Part C

### Answer any **two** questions.

#### Each question carries **10** marks.

- 22. Explain various methods in detail for cultivating the anaerobic organisms.
- 23. Microbial metabolism.
- 24. Detail about Glyoxylate cycle.
- 25. Describe the mechanism of Transformation.

(2×10=20)