QP CODE: 24027470

24027470

Reg No : .....

Name : .....

B.Sc DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE EXAMINATIONS, OCTOBER 2024

Third Semester

B.Sc Botany and Biotechnology Model III Double Main

CORE COURSE - BO3CRT18 - MICROBIOLOGY & MICROBIAL TECHNOLOGY

2017 Admission Onwards

CDBDE71A

Time: 3 Hours Max. Marks : 60

Part A

*Answer any **ten** questions.*

*Each question carries **1** mark.*

1. Name few chemicals commonly used for bacterial fixation.
2. Write few names of basic dyes used for staining.
3. Write on pour plate technique.
4. Name different preserving techniques used in bacterial cell culture.
5. Write any two methods of sterilization.
6. What is known as heat tretment of sterilization?
7. Vanomycin is an example of _____ of preservative.
8. Give two examples for anti-fungal drugs.
9. Write main features of viruses.
10. Name any two developent in fermentation technology.
11. Give an example for the production of secondary metabolite in microbe.
12. Give an example for metabolic pathway engineering.

(10×1=10)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Write on working of fluorescent microscope.

14. Comment in detail on nutritional types of bacteria.

15. Comment on different method used to isolate pure bacterial colony.

16. How to determine the efficiency of drug using disc diffusion method?

17. Write a note on genetic recombination in bacteria.

18. Describe the lytic and lysogenic life cycle of virus.

19. What are the importants of microbes in industry?

20. How fractional factorial approach differs from Statistical design of experiments?

21. Give a pictorial representation of a fermentor with its important parts.

(6×5=30)

Part C

*Answer any **two** questions.*

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

22. Briefly explain Bergeys manula of classification.

23. Write on both growth kinetics and growth curve of bacteria in detail.

24. How the production of ethanol differ with two strains? explain with two examples?

25. Evaluate your observations in the growth of microbial strains for aiding agriculture industry.

(2×10=20)