

DD-795

M. Sc. (Fourth Semester) EXAMINATION, 2020

MICROBIOLOGY

Paper First

(Microbial Biotechnology)

Time : Three Hours

Maximum Marks : 80

Note : Attempt all questions. All questions carry equal marks.

1. Write short notes on the following :
 - (a) BAC
 - (b) What is Linker ?
 - (c) Enterotoxins
 - (d) What is CCOST ?

Unit—I

2. Differentiate between Southern, Northern and Western blotting technique.

Or

Write short notes on the following :

- (a) Advantages of SDS-PAGE
- (b) What is cosmid ?

Unit—II

3. Describe the tools for genetic manipulations of micro-organism.

Or

Write short notes on the following :

- (a) Applications of RNAi technology
- (b) Role of adaptor

Unit—III

4. Discuss the role of micro-organisms in bioremediation. Give a suitable example.

Or

Write short notes on the following :

- (a) Define protein hormones and their functions.
- (b) Difference between biofertilizers and organic fertilizer.

Unit—IV

5. Explain biosafety and bioethics and issues in modern science.

Or

Write short notes on the following :

- (a) Importance of national organization
- (b) Types of IPR