B.Sc. (Part. - 1)

Roll No.

8001 - I

Microbio.

B.Sc. (Part - I) EXAMINATION - 2020
(Faculty of Science)
(Common to Three and Five Year Integrated Course)
BIO - TECHNOLOGY
Paper - BT - 101
Microbiology

Time Allowed: Three Hours
Maximum Marks: 50

- Note:- (i) Question paper will be divided into two Parts A and B. Part A of question paper shall be compulsory and contain 10 (Ten) very short answer type question of 20 words covering entire syllabus. Each carrying 1 (one) mark, with a total of 10 marks.
  - (ii) Part B of question paper will have 4 questions, one question with internal choice from each Unit / section. Students are required to attempt four questions in all from Part B. selecting not more than one question from each Section. Each question will carry 10 marks, with a total of 40 marks.

## **SECTION - A**

Answer the following question briefly:-

 $1 \times 10 = 10$ 

- (a) What is Whittaker five kingdom concept?
- (b) What is Bergey's Manual used for?
- (c) Write the name of stalked bacteria.
- (d) What is amphitrichous? Also write an example of amphitrichous bacteria.
- (e) What is transduction?
- (f) Define Batch culture.
- (g) Define Biofertilizers.
- (h) What are biopesticides?
- (i) What are secondary metabolites?
- (j) What is Archae bacteria?

## SECTION - B

Write a detail note on characteristics and structure of mycoplasma.

10

OR

Write short notes on following:-

5+5=10

- (a) Algae characteristics.
- (b) Haecket's three kingdom concept.

10

3. Write a detail note on nutrition in bacteria.

P.T.O.

Write short notes on following:-

- (a) Difference between Gram positive and Gram negative bacteria.
- (b) Plasmid.
- 4. Describe the process of transformation in bacteria.

OR

Explain the microbial growth curve.

- 5. Write notes on:-
  - (a) Food preservation.
  - (b) Secondary metabolites.

OR

How pollution control through use of consortium of micro-organism describe in detail.