

BSc DEGREE EXAMINATION DECEMBER 2017
(Fifth Semester)

Branch- **BOTANY**

MICROBIAL BIOTECHNOLOGY

Time : Three Hours

Maximum : 75 Marks

SECTION-A (20 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** marks (10 x 2 = 20)

- 1 What is master culture?
- 2 Name any two national type collection centres.
- 3 Define antifoaming agents.
- 4 Write about sterilization.
- 5 What do you mean by lactic acid fermentation?
- 6 Give a note on tetracyclines.
- 7 Comment on algal proteins.
- 8 Write the composition of biogas.
- 9 Write a short note on vitamin producing organisms.
- 10 List the uses of enzymes.

SECTION - B (25 Marks)

Answer **ALL** Questions

ALL Questions Carry **EQUAL** Marks (5 x 5 = 25)

- 11 a Write the procedure for preservation of microorganisms.
OR
b How preparation of inoculum is done?
- 12 a Give an account on solid state fermentation.
OR
b Write a note on sterilization of media.
- 13 a Outline the flow chart of Citric acid production.
OR
b Write about the production of Streptomycin.
- 14 a Give a brief note on yeast products.
OR
b Describe the stages of sewage disposal.
- 15 a Write a note on Riboflavins.
OR
b Give an account on cellulose production.

SECTION - C (30 Marks)

Answer any **THREE** Questions

ALL Questions Carry **EQUAL** Marks (3 x 10 = 30)

- 16 Write an essay on microbial screening techniques.
- 17 Draw and describe a fermentor.
- 18 Give an account on wine production.
- 19 Outline the process of mushroom cultivation.
- 20 Write about the production technology of microbial insecticides.

Z-Z-Z

END