

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
BSc DEGREE EXAMINATION MAY 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 Define Screening.
- 2 , Define type collection.
- 3 Define Antifoam agent.
- 4 What is surface sterilization?
- 5 What is vinegar?
- 6 What is bio ethanol?
- 7 Name any two edible mushrooms.
- 8 Write composition of biogas.
- 9 Write notes on bio insecticides.
- 10 , What is vitamins?

SECTION - B (25 Marks!)

Answer ALL Questions

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

- 11 a Write note on strain development.
OR
b Briefly describe the preparation of inoculum.
- 12 a Comment on tubular fermentor.
OR
b List out any seven basic functions of fermentor.
- 13 a Outline the flow chart of biotechnological production of streptomycin.
OR
b Write the protocol for citric acid production.
- 14 a List out the advantages of single cell protein.
OR
b Briefly describe biochemistry of biogas production.
- 15a Give a brief account on biotechnological production of amylase.
OR
b Write short note bacterial insecticide.

SECTION - C (30 Marks)

Answer any THREE Questions

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

- 16 Discuss primary and secondary screening and its importance.
- 17 Explain the structure and working mechanism of stirred tank fermentor.
- 18 Write in detail about biotechnological production of alcohol.
- 19 Give an elaborate account on Sewage disposal.
- 20 Write an essay on microbial insecticides.