

Exam Date & Time: 29-Sep-2020 (10:00 AM - 01:45 PM)



PSG COLLEGE OF ARTS AND SCIENCE

Note: Writing 3hrs: Checking & Inserting Image: 30mins

BSc DEGREE EXAMINATION MAY 2020
(Sixth Semester)

Branch - MICROBIOLOGY
MICROBIAL ECOLOGY [14MBU26]

Marks: 75

Duration: 210 mins.

SECTION A

Answer all the questions.

- 1) Food Web. (2)
- 2) Ecological Pyramid. (2)
- 3) Oxidative Ponds. (2)
- 4) Sludge and Effluent. (2)
- 5) Rusts and Smuts. (2)
- 6) Blight. (2)
- 7) Ecto & Endo Mycorrhiza. (2)
- 8) Phyllosphere. (2)
- 9) Water borne pathogen. (2)
- 10) Biofuel. (2)

SECTION B

Answer all the questions.

- 11) Write short note on Food chain. (5)
 - a)
 - [OR] Explain about community succession. (5)
 - b)

- 12) Describe about the microflora of freshwater, marine water and sewage water. (5)
- a)
[OR] Write a detailed note on activated sludge. (5)
b)
- 13) Describe in detail about biological treatment of dyes. (5)
- a)
[OR] Explain about biosorption of heavy metals. (5)
b)
- 14) Write a detailed note on Ecto & Endo mycorrhizae. (5)
- a)
[OR] Describe in detail about microbial interaction in Rhizosphere. (5)
b)
- 15) Define BOD and COD. Explain in detail about their methods of detection. (5)
- a)
[OR] Write about the Indicator organisms. (5)
b)

SECTION C

Answer 3 out of 5 questions.

- 16) Write a detailed note on Darwin's natural selection theory. (10)
- 17) Define Sewage. Describe in detail about the secondary treatment. (10)
- 18) Write in detail about bio deterioration of Leather. (10)
- 19) Describe disease cycle of smut of sugarcane and its preventive measures. (10)
- 20) Describe the process of Bioleaching with respect to any metal. (10)

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