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Code No. : 8019

FACULTY OF SCIENCE
B.Sc. III Year Examination, March/April 2012
MICROBIOLOGY
(Paper – IV) (Applied Microbiology)

Time : 3 Hours]

[Max. Marks :100

Note : Answer all questions from Section A and B.

SECTION – A
(Short Answer Type)

(8×5=40 Marks)

1. Ground nut rust.
2. Symbiotic N₂ fixation.
3. Biodegradation of pesticides.
4. Sanitary land fills.
5. Probiotics.
6. Cheese production.
7. Fermenter design.
8. Biogas.

SECTION – B
(Essay Answer Type)

(4×15=60 Marks)

9. a) Describe the role of plant growth promoting microbes in improving crop yield.
OR
b) What are biopesticides ? Explain how a biopesticide acts with a suitable example.
10. a) What is sewage treatment ? Describe important steps involved in sewage treatment.
OR
b) Explain the role of microbes in carbon cycle.
11. a) What is SCP ? Explain how SCP can be produced with suitable examples.
OR
b) Describe the spoilage of different food materials with a note on prevention.
12. a) What is screening ? Differentiate between primary and secondary screening procedures.
OR
b) Explain the principles of Beer manufacture.