



B.TECH DEGREE EXAMINATIONS: MAY 2015

(Regulation 2009)

Sixth Semester

BIOTECHNOLOGY

BTY206:Biodiversity

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

- Who established the concept of microbial chemoautotrophy and development of enrichment culture technique?
 - Beijerinick
 - Winogradsky
 - Louis Pasteur
 - Leeuwenhoek
- Which bacteria responsible for transforming ammonium ions to nitrate ions in soil?
 - Methanogenic bacteria
 - Nitrifying bacteria
 - Archaeobacteria
 - Crenarchaeota
- In what relationship, one population benefits, while other remains unaffected?
 - Neutralism
 - synergism
 - Commensalism
 - mutualism
- When one microbial population produces a substance that is inhibitory to the populations, that relationship is called
 - Amensalism
 - Parasitisms
 - Predation
 - Competition
- Which compounds increase the rate of seed germination and the development of root hairs that aid plant growth?
 - Auxins and gibberellins
 - allopathic substance
 - sulfur
 - ethylene compounds
- Fungi enter into a mutualistic relationship with plant roots called _____.
 - Mycorrhizae
 - lichens
 - legumes
 - root nodules

(OR)

- b) (i) Explain the important characteristics of fungi and lichens. (7)
- (ii) Brief Nematode and rotifer trapping fungi. (7)

23. a) Explain the systematic classification of animals.

(OR)

b) Explain the animal diversity conservation.

24. a) Life cycle and characteristics of gymnosperm and pteriodophytes.

(OR)

b) Explain about vascular plants.

25. a) Describe the intellectual property rights relating to biological resources.

(OR)

b) Discuss in detail on biodiversity conservation & management.
