

University of Pune
Department of Management Sciences
MBA-BT Semester I
Semester Exam Nov 2013
102- Basics of Biotechnology and Bioinformatics

Question Paper: 50marks

Time: 3Hrs

Write section 1 and 2 on separate answer sheets.

Section 1 (Marks: 30)

- Q1. Salient features of eco-friendly approach of production of plant derived-secondary metabolites with examples? – 8 Marks
- Q2. Define Nutraceuticals. Explain their importance in health care - 7 Marks

OR

What are Biofuels? How they are produced? Why they are important in pollution abatement?

- Q3. Write short notes on any THREE of the following: - 3 x 5 Marks

- a) Medicinal plant's conservation methods and gene banks
- b) Strengths and weaknesses of Indian Floriculture Industry
- c) Government initiatives to promote floriculture as an industry
- d) Petrol blends, the modes and economics of generation of ethanol

Section 2 (Marks: 20)

Q1. Explain (any four)

- a) Cryopreservation and its application
- b) Advantages and Disadvantages of Tissue Culture
- c) Flowcytometry and its applications
- d) Define Bioinformatics and explain why it is an important and necessary skill for the scientists.
- e) Define Antigen, Immunogen, Epitope, Affinity, Avidity