

Code :R5102304

B.Tech I Year (R05) Supplementary Examinations, May 2011
FUNDAMENTALS OF BIOLOGY
(Biotechnology)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions
All questions carry equal marks

1. Briefly explain a typical prokaryotic cell characteristic.
2. Elaborate on the role of Auxins as plant growth hormones.
3. Explain the Protozoan parasite caused disease "Amoebiasis" in detail.
4. Discuss the role of restriction endonucleases in recombinant DNA technology.
5. Give an over view of the important endocrine glands and their hormones with a diagram of anatomical loci of the principal endocrine glands of the human body.
6. Write short notes on:
 - (a) Image formation in the eye
 - (b) Mechanism of hearing
 - (c) Olfaction
 - (d) Sensory receptors.
7. Discuss the scope and importance of biotechnology for the modern society.
8. What is transgenic fish? How transgenic fish technology will improve aquaculture? Give some examples of transgenic fish.


