

R9

Code: 9A23503

B.Tech III Year I Semester (R09) Supplementary Examinations, May 2012

BASIC INDUSTRIAL AND ENVIRONMENTAL BIOTECHNOLOGY

(Biotechnology)

Time: 3 hours

Max Marks: 70

Answer any FIVE questions

All questions carry equal marks

- 1 Write an account on the commercial production of Acetic acid, Phenylalanine.
- 2 Discuss the production process of quinines and steroids.
- 3 Write an account on commercially important enzymes used in food and pharmaceutical industries.
- 4 Explain the method of vaccine production.
- 5 Write the following:
 - (a) Single cell proteins.
 - (b) Bioleaching.
- 6 Write the following:
 - (a) Fluidized bed reactor.
 - (b) Contact digesters.
- 7 Write the following:
 - (a) Biostimulation and Bioaugmentation.
 - (b) Bioventing and Biosparging.
- 8 Write an account on the Xenobiotic compounds, and their biodegradation mechanism.
