R09

Code No: C0303

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M.TECH I SEMESTER EXAMINATIONS APRIL/MAY-2012
GENERAL AND INDUSTRIAL MICROBIOLOGY
(BIOTECHNOLOGY)

Time: 3hours **Max.Marks:60**

Answer any five questions
All questions carry equal marks

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1. Explain in detail about Theory and practice of various sterilization techniques.

2. Write short note on the following
   a) Theory of Biogenesis
   b) Germ theory of Diseases
   c) Enrichment culture methods

3. Explain in detail about the factors influencing carbon and nitrogen sources in media formulation.

4. What is medium optimization? Explain different methods employed for medium optimization briefly explaining about Response Surface Methodology.

5. Define fermentation. Explain in detail about different parts and their significance that we use for the manufacturing of a fermentor with neat schematic diagram.

6. Explain about large scale production of Citric acid.

7. Discuss Industrial production of B – Vitamin in detail.

8. Describe in brief about Biofertilizers and their applications.

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