

R07

Code: R7102304

B.Tech I Year (R07) Supplementary Examinations, June 2013

**FUNDAMENTALS OF BIOLOGY**

(Biotechnology)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions  
All questions carry equal marks

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1. Discuss:
  - (a) The asexual reproduction in Fungi.
  - (b) General characteristics of Five – Kingdom classification.
2. What are “hormones”? How do plant hormones influence plant physiology or growth?
3. What are ecological pyramids and energy flow in an ecosystem?
4. Explain Hershey and Chase experiment to prove DNA as the genetic material.
5. What are the various endocrine glands and their secretions? Explain the functions of these hormones.
6. Explain in detail the structure and functions of neuron.
7. Describe the reactions of carbon fixation or the Calvin cycle. What are the products of the reaction?
8. Discuss the development of biotechnology in the field of medicine with special reference to new drugs development.

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