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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

- 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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