

Code No: 09A1BS06

**R09**

**I B.Tech Examinations, May/June 2012**  
**FUNDAMENTALS OF BIOLOGY**  
**Bio-Technology**

**Time: 3 hours**

**Max Marks: 75**

**Answer any FIVE Questions**  
**All Questions carry equal marks**

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1. Explain about the different types of nutritional modes adapted by Bacteria. [15]
2. Give an account on photosynthetic pigments. Explain their functions. [15]
3. Write short notes on:
  - (a) Auxins
  - (b) Gibberellins. [8+7]
4. Differentiate between Transcription and Translation explaining the mechanisms involved. [15]
5. What are pseudopodia? Explain about the different types of these structures used by different protozoans. [15]
6. Give an account of microbial enzymes and biotransformation. [15]
7. Write short notes on the following
  - (a) Rh factor
  - (b) Blood transfusion
  - (c) Agranulocytes
  - (d) Polycythemia. [15]
8. What are the refractory structures of the eye? Explain them in detail. [15]

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