

B.Tech. I Year(R07)) Supplementary Examinations, May/June 2010
FUNDAMENTALS OF BIOLOGY
(Bio-Technology)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. What all are the advantages of bacteria possessing flagella? [16]
2. Describe the significance of cell division, cell elongation and cell differentiation in plant growth. [16]
3. Explain the canal system in sponges. [16]
4. Define the one gene-one enzyme hypothesis. [16]
5. What are the structures of digestive system? What are the constituents of pancreatic and intestinal secretions? [16]
6. Enumerate on Muscle Spindle Receptors. [16]
7. Compare fermentations to aerobic respiration with respect to
 - (a) the amount of energy released from the energy source (e.g. glucose),
 - (b) the compound that serves as an electron acceptor, and
 - (c) the mechanisms of ATP synthesis that are involved.
8. Enumerate on Monoclonal antibody therapy. [16]
