

Code :R7412304

R7

IV B.Tech I Semester (R07) Supplementary Examinations, May 2011
BIOSENSORS & BIOELECTRONICS
(Computer Science & Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions
All questions carry equal marks

1. Explain various components and its applications of biosensors.
2. Write about:
 - (a) Bioaffinity based biosensors.
 - (b) Micro organisms based biosensors.
3. Explain various transducers and applications.
4. Write about:
 - (a) Principle of transducers.
 - (b) Molecular electronics based transducers.
5. Describe applications of Biosensors in veterinary, agriculture and food industry.
6. Write about:
 - (a) Molecular wires and switches.
 - (b) Mechanisms of unit assembly.
7. Explain methodology of low-cost biosensors for industrial processes.
8. Describe commercial prospects for biomolecular computing systems.
