

Code :R7412310

R7

IV B.Tech I Semester(R07) Supplementary Examinations, May/June 2011
NANO BIOTECHNOLOGY
(Biotechnology)

Time: 3 hours**Max Marks: 80**

Answer any FIVE questions
All questions carry equal marks

1. (a) Nanotechnology is new, but research on nanometer scale is not new at all. Write a short paragraph supporting this statement.
(b) What are the milestones in the evolution of nanotechnology?
2. (a) What is the difference between nanotechnology & nanoscience?
(b) What are the challenges faced by researchers in nanotechnology?
3. Explain e-beam lithography with a neat sketch.
4. What are the causes of interest in nanomaterials? Explain.
5. What are the protein-hybrid computers?
6. What is molecular design? Explain in detail.
7. Write short notes on:
 - (a) Molecular motors
 - (b) Neuro electronic interfaces.
8. Write short notes on:
 - (a) Designer biopolymers.
 - (b) Protein magnetic materials.
