

Code : R7412310 R07

IV B.Tech I Semester (R07) Supplementary Examinations, May 2012 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 mile stones in the evaluation of nanotechnology?
- 2. Explain the working of scanning electron microscopy with a neat sketch?
- 3. Explain nanoscale lithography with a neat sketch.
- 4. (a) Briefly narrate the history of nanomaterials.
 - (b) Give some present and future applications of nanomaterials.
- 5. What is the role of genetically engineered polymer proteins explain in detail.
- 6. What is molecular design explain in detail.
- 7. Write short notes on:
 - (a) nano luminescent tags.
 - (b) neuro electronic interfaces.
- 8. Write short notes on:
 - (a) RNA topoisomerases.
 - (b) DNA polynode.
