

Code: R7412310

R07

B.Tech IV Year I Semester (R07) Supplementary Examinations, May 2013

**NANO BIOTECHNOLOGY**

(Biotechnology)

Time: 3 hours

Max. Marks: 80

Answer any FIVE questions  
All questions carry equal marks

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- 1 Discuss about the basic concept of nanotechnology with reference to bio systems.
- 2 Write an account on the principle and operation mechanism of spectroscopy.
- 3 Answer the following:
  - (a) Molecular synthesis.
  - (b) E-beam lithography.
- 4 Write in detail about composites and nano scale biostructures.
- 5 Explain the role of genetically engineered polymer proteins in nanotechnology.
- 6 Discuss about the molecular biology of biosynthesis.
- 7 Answer the following:
  - (a) Drugs-photodynamic therapy.
  - (b) Neuro electronic interphases.
- 8 Answer the following:
  - (a) Designer biopolymers.
  - (b) RNA topoisomerase.

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