

CODE NO: 07A72311

R07

SET - 1

IV B.TECH - I SEMESTER EXAMINATIONS - MAY, 2011
NANO BIOTECHNOLOGY
(BIOTECHNOLOGY)

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

Answer any FIVE questions
All Questions Carry Equal Marks

- - -

1. Explain nano scale mechanism with reference to biosystems. [16]
2. Write about the principle of spectroscopy and what are the important types of spectroscopes explain. [16]
3. Write short notes on:
 - a) Polymerization.
 - b) e-beam lithography. [8+8]
4. Explain in detail about "Heterogeneous nano structures and composites". [16]
5. What is the role of genetically engineered polymer proteins and explain in detail. [16]
6. What is molecular design explain in detail. [16]
7. What is molecular design explain in detail. [16]
8. Write short notes on:
 - a) Neuroelectronic Interphases.
 - b) Molecular Motors. [8+8]

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SET - 2

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NANO BIOTECHNOLOGY
(BIOTECHNOLOGY)

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

Answer any FIVE questions
All Questions Carry Equal Marks

- - -

1. Explain scope and future prospects of nano biotechnology. [16]
2. Explain in detail about spectroscopy. [16]
3. Write short notes on:
 - a) Self Assembly.
 - b) Nano Scale Lithography. [8+8]
4. Explain in detail about "Heterogeneous nano structures and composites". [16]
5. Explain molecular biology of protein synthesis in detail. [16]
6. Write short notes on:
 - a) Drugs-Photodynamic Therapy.
 - b) Nano Luminescent Tags. [8+8]
7. Explain molecular biology of protein synthesis in detail. [16]
8. Write short notes on:
 - a) RNA Topoisomerase.
 - b) Procollagen. [8+8]

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SET - 3

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NANO BIOTECHNOLOGY
(BIOTECHNOLOGY)

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

Answer any FIVE questions
All Questions Carry Equal Marks

- - -

1. Write an essay on scanning probe instruments in detail. [16]
2. Explain scope and future prospects of nano biotechnology. [16]
3. Write short notes on:
 - a) Molecular Synthesis.
 - b) Polymerization. [8+8]
4. Explain in detail about “nano scale biostructures” like DNA and RNA. [16]
5. What are protein-hybrid computers? Explain. [16]
6. Write short notes on:
 - a) E-beam lithography.
 - b) Nano Scale Lithography. [8+8]
7. Explain in detail about “Heterogeneous nano structures and composites”. [16]
8. Write short notes on:
 - a) Drugs-Photodynamic Therapy.
 - b) Neuroelectronic inter phases nano luminescent. [8+8]

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SET - 4

IV B.TECH - I SEMESTER EXAMINATIONS - MAY, 2011
NANO BIOTECHNOLOGY
(BIOTECHNOLOGY)

Time: 3hours

Max. Marks: 80

Answer any FIVE questions
All Questions Carry Equal Marks

- - -

1. Explain in detail about Electron microscope. [16]
2. Write short notes on:
 - a) Molecular Synthesis.
 - b) Self assembly. [8+8]
3. Explain in detail about "nano scale biostructures" like DNA and RNA. [16]
4. What are protein-hybrid computers? Explain. [16]
5. Explain molecular biology of protein synthesis in detail. [16]
6. Write short notes on:
 - a) Drugs-photodynamic therapy.
 - b) Molecular motors. [16]
7. Write short notes on:
 - a) Procollagen.
 - b) DNA Polynode. [8+8]
8. What is molecular design explain in detail. [16]
