

Code.No: 07A72311

R07

SET-1

IV B.TECH – I SEM EXAMINATIONS, NOVEMBER - 2010
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. Write short notes on:
 - a) Molecular Synthesis
 - b) Self assembly. [16]
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. [16]
8. What is molecular design explain in detail. [16]

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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 Nano scale mechanism with reference to biosystems. [16]
2. Explain in detail about Electron microscope. [16]
3. Write short notes on:
 - a) Polymerization.
 - b) Nano scale lithography. [16]
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. Write short notes on:
 - a) Neuroelectronic interphases.
 - b) Nano luminescent tags. [16]
8. Explain molecular biology of Protein synthesis in detail. [16]

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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. Explain scope and future prospects of nano biotechnology. [16]
2. Explain in detail about spectroscopy. [16]
3. Write short notes on:
 - a) E-beam lithography.
 - b) Nano scale lithography. [16]
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. [16]
7. Explain molecular biology of protein synthesis in detail. [16]
8. Write short notes on:
 - a) RNA topoisomerase.
 - b) Procollagen. [16]

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SET-4

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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) Self assembly. [16]
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. [16]
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. [16]
