Code No: RR412301 **Set No.1**

IV B.Tech. I Semester Regular Examinations, November -2005
GENOMICS AND PROTEOMICS
(Bio-Technology)

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

Answer any FIVE Questions
All Questions carry equal marks

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1. What do you mean by transcription. Discuss? [16]
2. Explain the role of Trans-acting proteins control in gene Expression. [16]
3. Explain kinetics of DNA renaturation. [16]
4. Explain genome comparasion with examples. [16]
5. How could you find genes by EST database? [16]
6. What do you mean by biochipnology. Discuss? [16]
7. Explain how metabolomics studies in the regulation and signaling under the control of small molecules. [16]
8. How could you explain drug design using known receptor structures? [16]

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Code No: RR412301 **Set No.2**

IV B.Tech. I Semester Regular Examinations, November -2005
GENOMICS AND PROTEOMICS
(Bio-Technology)

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

Answer any FIVE Questions
All Questions carry equal marks

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1. What do you mean by RNA processing? [16]
2. Discuss in detail about MYC-Max system is regulatory mechanism in gene Expression. [16]
3. Explain kinetics of DNA renaturation. [16]
4. Explain the statistics of shotgun. [16]
5. Write short notes:
   (a) EST
   (b) cDNA. [8+8]
6. What are the role of proteomics in disease applications? [16]
7. Discuss in detail about human metabolome project. [16]
8. How could you explain drug design using known receptor structures? [16]

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Code No: RR412301 **Set No.3**

IV B.Tech. I Semester Regular Examinations, November -2005
GENOMICS AND PROTEOMICS
(Bio-Technology)

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

Answer any FIVE Questions
All Questions carry equal marks

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1. Discuss in detail Rho dependent and Rho independent termination of transcription. [16]
2. Explain the role of Trans-acting proteins control in gene Expression. [16]
3. Explain kinetics of DNA renaturation. [16]
4. How could you compare genomes with new template method? [16]
5. Discuss in detail about homology modeling and drug design. [16]
6. What do you mean by biochipnology. Discuss? [16]
7. Explain how SNP maps plays important role to predict the response to medicines. [16]
8. How could you design a drug based on bioinformatics tool? [16]

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Code No: RR412301 **Set No.4**

IV B.Tech. I Semester Regular Examinations, November -2005
GENOMICS AND PROTEOMICS
(Bio-Technology)

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

Answer any FIVE Questions
All Questions carry equal marks

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1. Expalin DNA replication in prokaryotes. [16]
2. Discuss in detail about Prokaryotic genome organization. [16]
3. Explain kinetics of DNA renaturation. [16]
4. Write short notes:
   (a) Comparative genomics
   (b) Functional genomics. [8+8]
5. How do Splice variants can be identified? [16]
6. What do you mean by biochipnology. Discuss? [16]
7. How EST library plays an important role in identifying disease gene? [16]
8. How could you explain drug design using known receptor structures? [16]

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