

Code No: RR322306

RR

Set No. 2

III B.Tech II Semester Examinations, December 2010

PROTEIN ENGINEERING

Bio-Technology

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Describe the mechanism of protein folding in general? [16]
2. Write short notes on:
 - (a) Structure of α -Keratin
 - (b) Structure of Collagen [8+8]
3. Describe the advantages and disadvantages of oligonucleotide - directed mutagenesis using PCR. [16]
4. (a) What do you mean by protein design?
(b) What are the goals of protein design? [8+8]
5. Write short notes on
 - (a) Coiled-Coil structures
 - (b) Threading [8+8]
6. Explain the structure and function of human growth factors. [16]
7. Explain in detail about the different Transcription factors that contains Zinc as an essential element of their DNA binding domains? [16]
8. How can you classify membrane proteins? Explain about molecular organization of Membrane proteins? [16]

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Set No. 4

III B.Tech II Semester Examinations, December 2010

PROTEIN ENGINEERING

Bio-Technology

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. (a) What do you mean by protein design?
(b) What are the goals of protein design? [8+8]
2. How can you classify membrane proteins? Explain about molecular organization of Membrane proteins? [16]
3. Write short notes on
(a) Coiled-Coil structures
(b) Threading [8+8]
4. Write short notes on:
(a) Structure of α -Keratin
(b) Structure of Collagen [8+8]
5. Describe the mechanism of protein folding in general? [16]
6. Explain the structure and function of human growth factors. [16]
7. Explain in detail about the different Transcription factors that contains Zinc as an essential element of their DNA binding domains? [16]
8. Describe the advantages and disadvantages of oligonucleotide - directed mutagenesis using PCR. [16]

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Set No. 1

III B.Tech II Semester Examinations, December 2010

PROTEIN ENGINEERING

Bio-Technology

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Explain the structure and function of human growth factors. [16]
2. Explain in detail about the different Transcription factors that contains Zinc as an essential element of their DNA binding domains? [16]
3. Describe the advantages and disadvantages of oligonucleotide- directed mutagenesis using PCR. [16]
4. How can you classify membrane proteins? Explain about molecular organization of Membrane proteins? [16]
5. Write short notes on
 - (a) Coiled-Coil structures
 - (b) Threading [8+8]
6. Write short notes on:
 - (a) Structure of α -Keratin
 - (b) Structure of Collagen [8+8]
7. Describe the mechanism of protein folding in general? [16]
8. (a) What do you mean by protein design?
(b) What are the goals of protein design? [8+8]

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Set No. 3

III B.Tech II Semester Examinations, December 2010

PROTEIN ENGINEERING

Bio-Technology

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Explain the structure and function of human growth factors. [16]
2. Describe the mechanism of protein folding in general? [16]
3. Explain in detail about the different Transcription factors that contains Zinc as an essential element of their DNA binding domains? [16]
4. Write short notes on
 - (a) Coiled-Coil structures
 - (b) Threading [8+8]
5. Write short notes on:
 - (a) Structure of α -Keratin
 - (b) Structure of Collagen [8+8]
6. (a) What do you mean by protein design?
(b) What are the goals of protein design? [8+8]
7. How can you classify membrane proteins? Explain about molecular organization of Membrane proteins? [16]
8. Describe the advantages and disadvantages of oligonucleotide - directed mutagenesis using PCR. [16]
