Code No: RR322304

RR

Set No. 2

III B.Tech II Semester Examinations,December 2010
BIOPROCESS ENGINEERING - II
Bio-Technology

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

⋆ ⋆ ⋆ ⋆ ⋆

1. Explain the design and operation of a CSTR with a neat labeled diagram? [16]

2. Discuss in detail the basic components of a digital computer. [16]

3. What are the two models employed for sterilization of media in industry and explain about them? [16]

4. Discuss different enzymes which are used for manipulating DNA. [16]

5. Discuss in detail the sequential parameter estimation for a simple batch fermentation. [16]

6. Discuss in detail about growth cycle phases for batch cultivation. [16]

7. Outline the methods employed for measuring Chemical process parameters and explain about them? [16]

8. What is meant by Multiphase bioreactors ? Explain in detail about any two Multiphase bioreactors ? [16]

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Code No: RR322304　　　　　　|RR|　　　　　　|Set No. 4|

III B.Tech II Semester Examinations,December 2010
BIOPROCESS ENGINEERING - II
Bio-Technology

Time: 3 hours　　　　　　　　　　　　　　　　　　Max Marks: 80
Answer any FIVE Questions
All Questions carry equal marks
⋆ ⋆ ⋆ ⋆ ⋆

1. What are the two models employed for sterilization of media in industry and explain about them?　[16]

2. Discuss in detail the basic components of a digital computer.　[16]

3. Explain the design and operation of a CSTR with a neat labeled diagram?　[16]

4. Discuss in detail about growth cycle phases for batch cultivation.　[16]

5. Discuss different enzymes which are used for manipulating DNA.　[16]

6. Discuss in detail the sequential parameter estimation for a simple batch fermentation.　[16]

7. Outline the methods employed for measuring Chemical process parameters and explain about them?　[16]

8. What is meant by Multiphase bioreactors ? Explain in detail about any two Multiphase bioreactors ?　[16]

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Code No: RR322304　　　　　|RR|　　　　　|Set No. 1|

III B.Tech II Semester Examinations,December 2010
BIOPROCESS ENGINEERING - II
Bio-Technology

Time: 3 hours　　　　　　　　　　　　　　　　　　Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks
⋆ ⋆ ⋆ ⋆ ⋆

1. Discuss in detail the basic components of a digital computer.　　　　[16]

2. Discuss different enzymes which are used for manipulating DNA.　　　[16]

3. Discuss in detail the sequential parameter estimation for a simple batch fermentation.　　　　　　　　　　　　　　　　　　　　　　　　　　[16]

4. What are the two models employed for sterilization of media in industry and explain about them?　　　　　　　　　　　　　　　　　　　　　　[16]

5. Explain the design and operation of a CSTR with a neat labeled diagram?　[16]

6. Discuss in detail about growth cycle phases for batch cultivation.　　　[16]

7. Outline the methods employed for measuring Chemical process parameters and explain about them?　　　　　　　　　　　　　　　　　　　　　[16]

8. What is meant by Multiphase bioreactors ? Explain in detail about any two Multiphase bioreactors ?　　　　　　　　　　　　　　　　　　　　[16]

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Code No: RR322304 | RR | Set No. 3

III B.Tech II Semester Examinations,December 2010
BIOPROCESS ENGINEERING - II
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 the basic components of a digital computer. [16]

2. Discuss different enzymes which are used for manipulating DNA. [16]

3. Outline the methods employed for measuring Chemical process parameters and explain about them? [16]

4. Explain the design and operation of a CSTR with a neat labeled diagram? [16]

5. Discuss in detail about growth cycle phases for batch cultivation. [16]

6. What are the two models employed for sterilization of media in industry and explain about them? [16]

7. What is meant by Multiphase bioreactors ? Explain in detail about any two Multiphase bioreactors ? [16]

8. Discuss in detail the sequential parameter estimation for a simple batch fermentation. [16]

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