

Code No: 07A32301

R07

Set No. 2

II B.Tech I Semester Examinations, May/June 2012

BIOCHEMISTRY

Bio-Technology

Time: 3 hours

Max Marks: 80

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

1. Explain the opposing pathways of Glycolysis and Gluconeogenesis in rat liver. [16]
2. Explain how pyruvate is involved in the lactic acid fermentation. [16]
3. Distinguish between LDL cholesterol and HDL cholesterol in terms of structural and functional characteristics. [16]
4. Describe the biosynthetic pathway of tryptophan from chorismate. [2+14]
5. What is PRPP? Explain its role in:
 - (a) Purine nucleotide biosynthesis
 - (b) Pyrimidine nucleotide biosynthesis. [16]
6. Describe the electron transport system and indicate the site-specific inhibition of electron transport system. [16]
7. What is the role of enzymes in biochemical reaction? Explain in detail. [16]
8. Write Short notes:
 - (a) Gangliosides
 - (b) Lipopolysaccharides.
 - (c) Properties of purines and pyrimidines. [6+6+4]

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R07

Set No. 4

II B.Tech I Semester Examinations, May/June 2012

BIOCHEMISTRY

Bio-Technology

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. What is the role of enzymes in biochemical reaction? Explain in detail. [16]
2. Explain the opposing pathways of Glycolysis and Gluconeogenesis in rat liver. [16]
3. Describe the biosynthetic pathway of tryptophan from chorismate. [2+14]
4. What is PRPP? Explain its role in:
 - (a) Purine nucleotide biosynthesis
 - (b) Pyrimidine nucleotide biosynthesis. [16]
5. Write Short notes:
 - (a) Gangliosides
 - (b) Lipopolysaccharides.
 - (c) Properties of purines and pyrimidines. [6+6+4]
6. Distinguish between LDL cholesterol and HDL cholesterol in terms of structural and functional characteristics. [16]
7. Explain how pyruvate is involved in the lactic acid fermentation. [16]
8. Describe the electron transport system and indicate the site-specific inhibition of electron transport system. [16]

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R07

Set No. 1

II B.Tech I Semester Examinations, May/June 2012

BIOCHEMISTRY

Bio-Technology

Time: 3 hours

Max Marks: 80

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

1. Describe the electron transport system and indicate the site-specific inhibition of electron transport system. [16]
2. What is PRPP? Explain its role in:
 - (a) Purine nucleotide biosynthesis
 - (b) Pyrimidine nucleotide biosynthesis. [16]
3. What is the role of enzymes in biochemical reaction? Explain in detail. [16]
4. Distinguish between LDL cholesterol and HDL cholesterol in terms of structural and functional characteristics. [16]
5. Describe the biosynthetic pathway of tryptophan from chorismate. [2+14]
6. Explain the opposing pathways of Glycolysis and Gluconeogenesis in rat liver. [16]
7. Explain how pyruvate is involved in the lactic acid fermentation. [16]
8. Write Short notes:
 - (a) Gangliosides
 - (b) Lipopolysaccharides.
 - (c) Properties of purines and pyrimidines. [6+6+4]

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R07

Set No. 3

II B.Tech I Semester Examinations, May/June 2012

BIOCHEMISTRY

Bio-Technology

Time: 3 hours

Max Marks: 80

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

1. Write Short notes:
 - (a) Gangliosides
 - (b) Lipopolysaccharides.
 - (c) Properties of purines and pyrimidines. [6+6+4]
2. Explain the opposing pathways of Glycolysis and Gluconeogenesis in rat liver. [16]
3. Describe the biosynthetic pathway of tryptophan from chorismate. [2+14]
4. What is PRPP? Explain its role in:
 - (a) Purine nucleotide biosynthesis
 - (b) Pyrimidine nucleotide biosynthesis. [16]
5. Distinguish between LDL cholesterol and HDL cholesterol in terms of structural and functional characteristics. [16]
6. What is the role of enzymes in biochemical reaction? Explain in detail. [16]
7. Describe the electron transport system and indicate the site-specific inhibition of electron transport system. [16]
8. Explain how pyruvate is involved in the lactic acid fermentation. [16]
