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APRIL 1994

B.Sc., (MEDICAL LABORATORY TECHNOLOGY)

FIRST YEAR

Paper II Basic Chemistry

Time: Three hours

Max. marks: 100

Answer ALL Questions

1. Write an essay on Acid-base theory. (25)
2. Classify Carbohydrates and proteins and write about the chemistry. (25)
3. Write short notes on:
 - a. Buffers
 - b. Co-enzymes
 - c. Phospholipids
 - d. Mitochondria
 - e. Aromatic compounds of physiological importance.

(5 x 10 = 50)

SB 707 APRIL 1995

B.Sc., (MEDICAL LABORATORY TECHNOLOGY)

FIRST YEAR

Paper II - BASIC CHEMISTRY

Time: Three hours Max.Marks: 100

Answer ALL Questions.

1. Classify lipids and discuss their properties and biological functions. (25)
 2. Draw the Electron Microscopic Structure of a cell and discuss the functions of Mitochondria, Ribosomes, Golgi Apparatus and the Nucleus. (25)
 3. Write short notes on (5 x 10 = 50)
 - (a) Buffers
 - (b) Aromatic compounds of Physiological importance
 - (c) Biological importance of Carbohydrates
 - (d) Classification and properties of proteins.
 - (e) Factors affecting enzyme reaction.
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APRIL 1996

[AKS72]

**B.Sc. (MEDICAL LABORATORY TECHNOLOGY)
DEGREE EXAMINATION.**

First Year

Paper II – BASIC CHEMISTRY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss the classification of carbohydrates with suitable examples and their important properties. How will you test a carbohydrate in lab? Discuss the biological importance of carbohydrates. (25)
 2. (a) Define (i) pH of a solution (ii) Buffer solution. (4)
(b) Mention any two buffer solutions present in our body. (2)
(c) Discuss buffer mechanism and its role in our body. (9)
(d) How is pH of a solution determined. (10)
 3. Write short notes on : (5 x 10 = 50)
 - (a) Nucleic acids and their structure.
 - (b) Aliphatic compounds of physiological importance.
 - (c) Phospholipids and their biological importance.
 - (d) Mitochondria and its role in our body.
 - (e) Cholesterol.
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APRIL 1997

(MP 872)

B.Sc. (MEDICAL LABORATORY TECHNOLOGY)
DEGREE EXAMINATION

First Year

Paper-II BASIC CHEMISTRY

Time: Three Hours

Max:100 marks

Answer ALL Questions

1. Define co-enzymes. Discuss the classification of enzymes and their nature. What are the factors affecting enzyme reaction. (25)
2. a) Define (i) oil (ii) fat (2)
b) What are fatty acids? (3)
c) Describe the properties and biological importance of lipids. (10)
d) Discuss the classification of lipids with suitable examples. (10)
3. Write short notes on: (5x10=50)
 - a) Aromatic compounds of physiological importance.
 - b) Biological importance of steroids.
 - c) Nucleotides and nucleosides.
 - d) Hydrogen ion concentration and pH.
 - e) Hydrolytic products of protein.

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APRIL 1998

(SV 872)

B.Sc. (MEDICAL LABORATORY TECHNOLOGY)
DEGREE EXAMINATION

First Year

PAPER-II BASIC CHEMISTRY

Time: Three hours

Max: 100 Marks

Answer ALL Questions

1. Discuss the classification of Carbohydrates with examples. Give one colour reaction for carbohydrates. How is blood glucose estimated by o-Toluidene method. Discuss the biological importance of carbohydrates. (25)
2. a) Define PH of a solution (2)
- b) What is ionic product of water? Give its importance. (3)
- c) What is (i) buffer solution (ii) buffer action. Mention any two buffers present in our body. Explain the buffer mechanism with examples. (10)
- d) How is PH of a solution determined by titration using indicators. Mention the importance of PH of blood. (10)

3. Write short notes on: (5x10=50)

- a) Biological importance of phospholipids.
- b) Aliphatic compounds of physiological importance.
- c) Essential amino acids
- d) Mitochondria
- e) Estimation of cholesterol.

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APRIL 1999

[SG 872]

Sub. Code : 5002

**B.Sc. (Medical Laboratory Technology) DEGREE
EXAMINATION.**

First Year

Paper II — BASIC CHEMISTRY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. What are enzymes? Discuss the nature and classification of enzymes. What are the factors affecting enzyme reactions? **2.5**
 2. Discuss the classification, properties and biological functions of lipids. **2.5**
 3. Write short notes on : **(5 × 10 = 50)**
 - (a) Aliphatic compounds of physiological importance with examples.
 - (b) Organelles and their biological functions.
 - (c) Biological importance of steroid.
 - (d) Nucleotides and nucleosides.
 - (e) Hydrogen ion concentration and pH.
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APRIL 2000

[KB 872]

Sub. Code : 5002

**B.Sc. (MEDICAL LABORATORY TECHNOLOGY)
DEGREE EXAMINATION.**

First Year

Paper II — BASIC CHEMISTRY

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Discuss classification of carbohydrates with examples. Discuss biological importance of carbohydrates. How is blood glucose estimated by O-toluidine method? (25)
 2. (a) What is buffer solution and buffer action? (2)
(b) Write a brief note on : Haemoglobin buffers. (3)
(c) Discuss the classification of amino acids with suitable examples. (10)
(d) How is serum protein estimated? Mention a colour reaction for protein. (10)
 3. Write short notes on : (5 × 10 = 50)
 - (a) Cell organelle
 - (b) Aliphatic compounds of physiological importance
 - (c) Factors affecting enzyme reactions
 - (d) Structure of DNA
 - (e) Phosphoglycerides.
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