

APRIL 1995

SB 791

B.Sc., (MEDICAL LABORATORY TECHNOLOGY)

SECOND YEAR

Paper II - Biochemistry

Time: Three hours      Max.marks:100

Answer All Questions

1. Discuss the process of digestion and absorption of lipids. (25)
  2. Describe in detail the hormones involved in maintaining blood sugar level in the body. (25)
  3. Write short notes on: (5 x 10 = 50)
    - a) Biological role of Vit. A
    - b) Role of iron in the body
    - c) Urea synthesis
    - d) Functions of Adrenal Steroid hormones
    - e) Metabolism of Aromatic amino acid.
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NOVEMBER 1995

MB 876

B.Sc.(MEDICAL LABORATORY TECHNOLOGY)

SECOND YEAR

Paper-II Biochemistry-I

Time: Three hours

Max.Marks: 100

Answer ALL Questions

1. What is normal blood glucose level.  
Describe the mechanism of regulation  
of blood glucose. (25)
2. Write an essay on Vitamin A, about Source,  
Properties, Physiological and Biochemical  
effects, Deficiency manifestations and  
dosage in treatment and prevention of  
vitamin A deficiency. (25)
3. Write short notes on: ( 5x10=50)
  - a) Functions of growth hormone
  - b) Transamination
  - c) Ceruloplasmin
  - d) Serum electrophoresis
  - e)  $\beta$  - Oxidation of fatty acid

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APRIL 1996

(AK 876)

B.Sc.(MEDICAL LABORATORY TECHNOLOGY)

SECOND YEAR

Paper II - BIOCHEMISTRY-I

Time: Three hours

Max:100 marks

Answer ALL Questions

1. Describe the synthesis and utilisation of Ketone bodies. Mention the tests to detect them in urine.(25)
2. Write an essay on vitamin D, its source, properties,,physiological (25) and biochemical functions,deficiency manifestations and daily requirement.
3. Write short notes on: (5x10=50)
  - a) Oral Glucose Tolerance Test
  - b) Metabolic Role of Calcium
  - c) Metabolism of Iron
  - d) Biological role of Thyroid Hormones
  - e) Urea Cycle

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OCTOBER 1996

( PK 876 )

B.Sc. (MEDICAL LABORATORY TECHNOLOGY)  
DEGREE EXAMINATION

SECOND YEAR

PAPER II - BIOCHEMISTRY-I

Time: Three hours

Max: 100 marks

Answer ALL Questions

1. Write the sources, chemistry, physiological and biochemical functions, daily requirement and deficiency manifestations of Vitamin A. (25)
2. Describe the citric acid cycle. Mention its energetics and importance. (25)
3. Write short notes on: (5x10=50)
  - a) Digestion and absorption of lipids.
  - b) Sulphur containing amino acids.
  - c) Metabolic role of Insulin.
  - d) Trace elements.
  - e) Serum electrophoresis.

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APRIL 1997

(MP 876)

B.Sc. (MEDICAL LABORATORY TECHNOLOGY)  
DEGREE EXAMINATION  
SECOND YEAR

Paper-II BIOCHEMISTRY-I

Time: Three hours

Max: 100 marks

Answer ALL Questions

1. How is the fat digested and absorbed in the body. Give an account of synthesis of fatty acids. (25)
2. Write the sources, chemistry and daily requirements of Vitamin C. Describe its absorption, biochemical functions and deficiency manifestations. (25)
3. Write short notes on: (5x10=50)
  - a) Paper Chromatography
  - b) Biological role of Thiamine
  - c) Glycogen storage diseases
  - d) Estimation of blood urea
  - e) Metabolism of calcium

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(SV 876)

APRIL 1998

B.Sc. (MEDICAL LABORATORY TECHNOLOGY)  
DEGREE EXAMINATION  
Second year

PAPER-II BIOCHEMISTRY-I

Time: Three Hours

Max: 100 Marks

Answer ALL Questions

1. Name the aromatic amino acids and the hormones synthesised from them. Describe the metabolism of any one of them including the inborn errors associated with its manifestation. (25)
2. Write the sources, Chemistry and daily requirement of Vitamin D. Describe its absorption, biochemical functions and deficiency manifestation. (25)
3. write short notes on: (5x10=50)
  - a) Electrophoresis
  - b) Magnesium
  - c) Biochemical role of Insulin
  - d) Essential Fatty acids
  - e) Transamination.

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**APRIL 1999**

**[SG 876]**

**Sub. Code : 5017**

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

**Paper II — BIOCHEMISTRY — I**

**Time : Three hours**

**Maximum : 100 marks**

**Answer ALL questions.**

1. How is carbohydrate digested and absorbed in the body? Give an account of synthesis and break down of glycogen in the body. (25)
  
  2. Name sulphur containing vitamins. Write the sources, chemistry, biochemical functions, deficiency manifestations of any one of them. (25)
  
  3. Write short notes on : (5 × 10 = 50)
    - (a) Biological role of Niacin.
    - (b) Glucagon.
    - (c) Urea cycle.
    - (d) Serum cholesterol.
    - (e) Flame photometer.
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**OCTOBER 1999**

**[KA 876]**

**Sub. Code : 5017**

**B.Sc. DEGREE EXAMINATION.**

**(Medical Laboratory Technology)**

**Second Year**

**Paper II — BIOCHEMISTRY — I**

**Time : Three hours**

**Maximum : 100 marks**

**Answer ALL questions.**

1. Describe in detail the biosynthesis of urea. Write a note on transamination. (25)
  2. Discuss the various mechanisms for maintenance of blood sugar level. Explain oral glucose tolerance test. (25)
  3. Write short notes on : (5 × 10 = 50)
    - (a) Vitamin K
    - (b) Coenzymes
    - (c) Digestion and absorption of proteins
    - (d)  $\beta$  oxidation of fatty acids
    - (e) Flame photometry.
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**APRIL 2000**

**[KB 876]**

**Sub. Code : 5017**

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

**(Second Year)**

**Paper II — BIOCHEMISTRY — I**

**Time : Three hours**

**Maximum : 100 marks**

**Answer ALL questions.**

1. What is normal Blood level of calcium? Write in detail about the mechanisms by which calcium level is regulated by various organs. (25)
  2. Describe the source, chemistry, biochemical functions, daily requirement and deficiency manifestations of Vit. C. (25)
  3. Write short notes on : (5 × 10 = 50)
    - (a) Flame photometer.
    - (b) Glycolysis.
    - (c) Metabolism of cysteine.
    - (d) Biochemical role of Riboflavin and Niacin.
    - (e) Derivatives of Tyrosine.
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