Aug-15

# BLDE UNIVERSITY

## MBBS PHASE - I EXAMINATION

[Time : 3 Hours] (REVISED SCHEME) [Max.Marks : 100]

## BIOCHEMISTRY PAPER - I

## QP CODE : 1005

Your answer should be specific to the questions asked. Draw neat labeled diagrams wherever necessary. Each answer should be written on new page only. Write Question No. in left side of margin.

**Use separate answer books for Paper – I and Paper II**

**Long Essay: (Answers to be started on fresh page only)** **1x10=10 marks**

1. Define gluconeogenesis. Mention key enzymes, their regulatory steps. Explain the pathway from its predominant precursor. Mention its significance.

**Short Essay: (Answers to be started on fresh page only)** **5x5=25 marks**

2. Classify lipids with suitable examples.
3. Oxidative phosphoryltion
4. Competitive inhibition of enzyme activity.
5. Mechanism of action of steroid hormones.
6. Glucose tolerance test.

**Short Answers: (Leave three lines gap between the answers)** **5x3=15 marks**

7. Name Bile salts. What are its functions.
8. Name three isotopes with one application of each.
9. What is steatorrhoea. Mention its cause.
10. Rickets and Osteomalacia
11. Alkaptonuria

## QP CODE : 1006 PAPER – II

**Use separate answer book**

**Long Essay: (Answers to be started on fresh page only)** **1x10=10 marks**

1. What is normal serum calcium level? Mention sources, daily requirement, and functions deficiency symptoms of calcium. Explain how serum calcium is regulated.

**Short Essay: (Answers to be started on fresh page only)** **5x5=25 marks**

2. Heme catabolism
3. Function of plasma proteins.
4. Detoxification by conjugation.
5. Renal regulation of acid base balance.
6. Functions of phospholipids

**Short Answers: (Leave three lines gap between the answers)** **5x3=15 marks**

7. Difference between kwashiorkor and marasmus.
8. Define oncogenes. Give two examples of oncogenes.
9. Name three porphyrias and their enzyme defect.
10. Wilson's disease.
11. Flurosis.