BLDE UNIVERSITY

M.B.B.S. PHASE – I DEGREE EXAMINATION – JULY 2009

Time : 3 Hrs [Max. Marks : 100]

QP Code :1005 BIOCHEMISTRY – PAPER I

Your answer should be specific to the questions asked. Draw neat labeled diagrams wherever necessary. **Use separate answer books for PAPER I and PAPER II**

LONG ESSAY **1 X 10 = 10 MARKS**

1. Name the non carbohydrate substrates used for gluconeogenesis. Describe the conversion of any one of them to glucose (2+8)

SHORT ESSAY **5 X 5 = 25 MARKS**

2. Absorption of lipids from the intestine (5)
3. Competitive inhibition of enzyme activity (5)
4. Functions of glycine (5)
5. Chemiosmotic theory of oxidative phosphorylation (5)
6. Fatty Liver and lipotropic factors (5)

SHORT ANSWERS **5 X 3 = 15 MRAKS**

7. Functions of phospholipids (3)
8. Phenylketonuria (3)
9. Name any three tumor markers and their diagnostic importance. (3)
10. Name free radicals and anti oxidant enzymes. (3)
11. Metabolic functions of mitochondria. (3)

QP Code :1006 PAPER II

Use separate answer book

LONG ESSAY **1 X 10 = 10 MARKS**

1. Describe the translation of information present in mRNA into proteins

SHORT ESSAY **5 X 5 = 25 MARKS**

2. Give sources, functions and daily requirement of Vitamin C (1+3+1)
3. Structure and functions of tRNA . (3+2)
4. How bilirubin is formed, transported and excreted in the body. (2+1+2)
5. Blood buffers (5)
6. Give an account of iron absorption, transport and storage. (3+1+1)

SHORT ANSWERS **5 X 3 = 15 MRAKS**

7. Functions of zinc and selenium. (2+1)
8. Kwashiorkor (3)
9. What is normal serum albumin level? Causes and consequences of Hypoalbuminamia. (1+1+1)
10. Give Henderson – Hesselbach equation.Write its importance. (1+2)
11. What are eicosanoids.Write any two functions. (1+2)