

BLDE UNIVERSITY
M.B.B.S.PHASE – I DEGREE EXAMINATION –DECEMBER 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. Describe competitive inhibition of enzyme activity. Write the clinical applications of it.(4+6)

SHORT ESSAY

5 X 5 = 25 MARKS

2. Metabolic fate of glycine. (5)
3. Formation and utilization of ketone bodies. (3+2)
4. Regulation of glycogenolysis. (5)
5. Digestion of lipids. (5)
6. Electron transport chain. (5)

SHORT ANSWER

3 X 5 = 15 MARKS

7. Diagrammatic representation of action of steroid hormone. (3)
8. Xenobiotic metabolism. (3)
9. Tumor markers. (3)
10. Schematic presentation of urea cycle. (3)
11. Essential fatty acids. (3)

QP Code : 1006 PAPER – II

Use separate answer book

LONG ESSAY:

1 X 10 = 10 MARKS

1. Give the outline of heme synthesis and degradation. (6+4)

SHORT ESSAY

5 X 5 = 25 MARKS

2. Regulation of water balance. (5)
3. Functions and deficiency disorders of vitamin – D. (3+2)
4. Clearance test to assess kidney function. (5)
5. Protein energy malnutrition. (5)
6. Functions of calcium and phosphorus. (5)

SHORT ANSWER

3 X 5 = 15 MARKS

7. Immunoglobulin classification and functions. (1+2)
8. Salvage pathway of purine synthesis. (3)
9. Lac operon. (3)
10. Applications of recombinant DNA technology. (3)
11. Classification of fatty acids. (3)