

Sri Devaraj Urs Academy of Higher Education & Research

M.B.B.S. PHASE - I Degree Examination - July 2008

Time : 3 Hrs.

[Max. Marks : 100]

BIOCHEMISTRY

Use separate answer books for section A and section B.

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

SECTION - A (Max. Marks: 50)

LONG ESSAY

1 X 10 = 10 Marks

1. Write in detail about the reactions involved in the Metabolism of Phenylalanine.
Write an account of inborn errors associated with Phenylalanine Metabolism.

SHORT ESSAY

5 X 5 = 25 Marks

2. List the Glycogen storage disorders and write the enzyme deficiency and clinical features in each of them.
3. Allosteric Inhibition with suitable examples.
4. Name the Ketone bodies. Write about their formation and utilization.
5. Define Tumour marker. Write four examples with their significance.
6. List the Thyroid Function tests. How are they altered in Hypothyroidism.

SHORT ANSWERS

5 X 3 = 15 Marks

7. Write about Symport and Antiport systems with examples.
8. Significance of HDL Oxidation.
9. Detoxification by Oxidation.
10. Enzyme specificity.
11. List the Hormones that increase Lipolysis.

SECTION - B (Max. Marks: 50) (Use separate answer book)

LONG ESSAY

1 X 10 = 10 Marks

1. Define Transcription. Explain transcription under the following.
 - a) Initiation.
 - b) Elongation.
 - c) Termination.

SHORT ESSAY

5 X 5 = 25 Marks

2. Absorption of Calcium.
3. Metabolic Function of Biotin.
4. Name the Blood Buffers. How do they help in maintaining pH of Blood?
5. Kwashiorkor.
6. Porphyrias - Classification and Enzyme deficiency in each class.

SHORT ANSWERS

5 X 3 = 15 Marks

7. Pellegra.
8. Biological Value of protein.
9. Name two Zinc containing Enzymes and the relation catalysed by them.
10. Clinical applications of Recombinant DNA technology.
11. GOUT.

