



Q.P CODE - 105

Sri Devaraj Urs University

(Formerly known as Sri Devaraj Urs Academy of Higher Education and Research)

M.B.B.S. PHASE - I Degree Supplementary Examination - Jan. 2009

Time : 3 Hrs.

[Max. Marks : 100]

BIOCHEMISTRY C

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. Name the Aromatic Amino Acids. Discuss the Metabolism of any one of them. Add a note on the associated clinical disorders.

SHORT ESSAY

5 X 5 = 25 Marks

2. Lysosomes
3. Describe the Hexose – Monophosphate shut pathway. Add a note on its Biochemical significance.
4. How is ammonia Detoxified in the Human Body.
5. Describe the metabolic changes during starvation.
6. Enzyme markers of Liver Function.

SHORT ANSWERS

5 X 3 = 15 Marks

7. Draw a neat Labelled Diagram of the Electron Transport chain indicating the site of action of inhibitors.
8. Cytochrome P⁴⁵⁰.
9. Suicide Inhibition.
10. Oncogenes.
11. Beta Oxidation of palmitic acid.

SECTION – B (Max. Marks: 50)

(Use separate answer book)

LONG ESSAY

1 X 10 = 10 Marks

1. Define Translation. Write in detail the steps in Translation – Add a note on the Post Translational Modifications.

SHORT ESSAY

5 X 5 = 25 Marks

2. Name the sulphur containing Vitamins. Write the Chemistry, Biochemical role, Sources and Deficiency manifestations of anyone of them.
3. What is the normal serum Calcium? How is Calcium Homeostasis maintained in the Human Body.
4. How does Kidney regulate an acid load.
5. How is bilirubin Detoxified – What is van-den Bergh reaction. Discuss the different responses obtained in the reaction.
6. Gene Therapy.

SHORT ANSWERS

5 X 3 = 15 Marks

7. Obesity
8. Draw a Diagram of the Purine ring indicating the source of Carbon and Nitrogen.
9. Polymerase Chain Reaction.
10. Acute Intermittent Porphyria.
11. Quality Control.

