

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

M.B.B.S. PHASE – I Degree Examination – July -2015

Time : 3 Hrs.

[Max. Marks : 100]

BIOCHEMISTRY

Q.P Code : RS -105

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY (Answer any 2 only)

2 X 10 = 20 Marks

1. Mention the source, active form and functions of vitamin D. Add a note on its deficiency manifestations.
2. Write in detail about the components of electron transport chain. Explain the chemiosmotic theory.
3. Write briefly about the various ways of blood sugar regulation. Mention the causes of hypoglycemia.

SHORT ESSAY (Answer any 10 only)

10 X 5 = 50 Marks

4. Significance of Rapaport Leubering Cycle.
5. Eicosanoids.
6. Functions of phospholipids.
7. Specific Dynamic Action.
8. Structure of t- RNA.
9. Antioxidants.
10. Functions of vitamin C.
11. Renal regulation of pH.
12. Purine Salvage pathway.
13. Name important liver function tests.
14. Various methods of biomedical waste disposal.
15. Mechanisms of transport across cell membranes.

SHORT ANSWERS (No Choices)

10 X 3 = 30 Marks

16. Deficiency manifestations of folic acid.
17. Phenylketonuria.
18. Name three tumour markers.
19. Name important kidney function tests.
20. Name some conditions of increased uric acid.
21. Uses of dietary fibres.
22. Fluorosis.
23. Inhibitors of oxidative phosphorylation.
24. Important derivatives of Tyrosine.
25. Significance of Hexose Monophosphate pathway.