

**SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH**

**(A DEEMED TO BE UNIVERSITY)**

**M.B.B.S. PHASE – I Degree Examination – January-2013**

**Time : 3 Hrs.**

**[Max. Marks : 100]**

**BIOCHEMISTRY**

**Q.P Code : 105 - SDUU**

*Your answers should be specific to the questions asked.  
Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY**

**2 X 10 = 20 Marks**

1. What is electron transport chain? Write about the inhibitors and uncouplers.
2. Write in detail the sources, daily requirement and metabolic functions of folic acid.

**SHORT ESSAY**

**10 X 5 = 50 Marks**

3. Mention any three tumor markers and their importance.
4. Glycolysis.
5. Break down of cholesterol.
6. Enzymes of diagnostic importance.
7. Types of free radicals and their importance.
8. Iron and its clinical importance.
9. Metabolic acidosis.
10. Mention RFT and their importance.
11. Types of RNA.
12. Recombinant DNA technology.

**SHORT ANSWERS**

**10 X 3 = 30 Marks**

13. Stereo isomerism in sugars.
14. Unsaturated fatty acids and their significance.
15. Cori's cycle.
16. Any three lipotropic factors.
17. Sources of atoms of purine ring.
18. BMR and its significance.
19. Human genome project.
20. Deficiency of thiamine.
21. Characteristics of genetic code.
22. Hypervitaminosis of vitamin-A.