

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH (A DEEMED TO BE UNIVERSITY)

M.Sc. Medical Laboratory Technology (M.Sc. MLT)

Second Year Semester - III, September 2021 Examination

Time: 3.00 Hrs.

[Max. Marks: 100]

Paper -II Metabolism and Metabolic Disorders O.P. Code: M3422

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

Long Essay

2x20 = 40 Marks

- Define Glycogenesis and Glycogenolysis. Write the reactions of Glycogenesis and Glycogenolysis. Add a note on its regulation. 4+5+5+5
- 2. Define β-oxidation. Explain the β- oxidation of Palmitic acid. Add a note on its energetics.

Short Essay

6x10 = 60 Marks

- Name the compounds derived from Tryptophan. Explain how these compounds are synthesized from it. Add a note on inborn errors of metabolism associated with this.(2+5+3)
- Write the WHO classification of Diabetes Mellitus. Explain the laboratory investigations in the diagnosis of diabetes mellitus?5+5
- Describe the steps of urea cycle. Add a note on disorders of urea cycle. 7+3
- Explain degradation of cholesterol. Give the Normal Biological Reference range for serum levels of Total cholesterol, Triglycerides, LDL and HDL. Add a note on cholelithiasis.5+4+1
- List the types of RNA and write their functions. Describe the Structure of t RNA with neat labeled diagram.4+6
- 8. Write the steps involved in the denovo synthesis of purine nucleotides. add a note on Gout.
