15 JAN 2009

Eastern University, Sri Lanka,

University, Sri Lanka Second Year, First Semester Examination In Science - 2006/2007

BT 203 - Plant Bio Chemistry (Repeat)

Answer all Questions Time allowed: 02 hours

- 1. a) Outline the biosynthetic pathway of palmitic acid (C15H31COOH) from Acetyl CoA. b) Give a balance sheet equation for energy involved in the synthesis of palmitic acid.
- 2. Distinguish between the following:
 - a) Glycolysis and Gluconeogenesis
 - b) Oxidation of saturated fatty acids and unsaturated fatty acids.
- 3. a) Outline how the Pentose Phosphate Pathway can supply ribose-5-phosphate for the synthesis of RNA.
 - b) Giving examples, describe the synthesis of sugars from fatty acids.
- 4. Write short notes on the followings:
 - a) Regulatory mechanism fatty acid biosynthesis
 - b) Catabolism of amino acids
 - c) Polysaccharides in plants