

11 OCT 2014

Eastern University, Sri Lanka,

First Year, Second Semester Examination In Agriculture – 2011/2012

AC 1201 - Biochemistry (3:30/30)

Answer all Questions

Time allowed: 02 hours

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1. a) "Aerobic oxidation of Glucose yields more energy than anaerobic oxidation"- Explain.  
b) Briefly discuss the Regulatory mechanism of the Glycolytic pathway in cells.
  
2. a) Outline the catabolic pathway whereby the Palmitic acid ( $C_{15}H_{31}COOH$ ) is converted to acetyl coenzyme A.  
b) Write an account on Gluconeogenesis starting from pyruvate.
  
3. Explain the following:
  - a) Role of Pentose Phosphate Pathway in supplying Ribose-5-Phosphate for RNA synthesis.
  - b) Formation of urea in Ureotelic animals.
  
4. Write Short notes on the following:
  - a) Secondary structures of Protein
  - b) Tri Carboxylic Acid (TCA) Cycle
  - c) Polysaccharides in plants

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