

Eastern University, Sri Lanka

Second Year Second Semester Examination in Science - 2009/2010

BT-203 / Plant Biochemistry - (Jan / Feb - 2013)



**Time: Two hours**  
**Answer all questions**

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1. (a) Define the term "Enzyme" and give their characteristics. (50 marks)
  - (b) Explain the principles underlying the classification of enzymes. Give named example for each group of enzymes and state why it belongs to that particular group. (50 marks)
  2. (a) Out line the catabolic pathway of Pentadecanoate. (C<sub>15</sub>) (70 marks)
  - (b) How many ATP molecules will be generated in the catabolism of one molecule of Pentadecanoate (C<sub>15</sub>). (30 marks)
  3. (a) Explain how the tricarboxylic acid cycle is linked the catabolism of proteins. (50 marks)
  - (b) Giving examples, describe how sugars are produced from fatty acids. (50marks)
4. Write short notes on the following
- (a) Carbohydrates (33 marks)
  - (b) Oxidative Phosphorylation (33 marks)
  - (c) Transamination in Catabolism of Protein (34 marks)