

**External Degree programme**  
**Eastern University Sri Lanka**  
**Second Year Examination in Science (2008/2009) March-2016**  
**EXT BT 203, Plant Biochemistry**  
**Repeat**



**Answer All questions.**  
**Time: 02 hours**

1. Briefly explain the following terms.

|                       |                         |
|-----------------------|-------------------------|
| (a) Isoenzyme         | ( f) Peptide bond       |
| (b) Activation energy | (g) Fibrous protein     |
| (c) Transferases      | (d) Triacylglycerols    |
| (d) Oligosaccharides  | (e) Feedback inhibition |
| (e) Transamination    | (f.) Dinucleotides      |

**(10\*10=100)**
  
2. (a) Define the term “Enzyme” and give the classification of enzyme with named examples **(50 marks)**  
(b) Briefly explain “Glycolysis” **(50 marks)**
  
3. Briefly explain

|                                   |                  |
|-----------------------------------|------------------|
| (a) “Polysaccharides in plants”   | <b>(33marks)</b> |
| (b) “ Biological roles of Lipids” | <b>(33marks)</b> |
| (c) ” Oxidative Phosphorylation ” | <b>(34marks)</b> |
  
4. (a) Out line the catabolic pathway of **Palmitoleoyl CoA** ( C<sub>16</sub>- Cis  $\Delta^9$ HexadecenoylCoA) **(70 marks)**  
(b) How many ATP molecules will be generated in the catabolism of one molecule of **Pamitoleoyl CoA** **(30 marks)**