

EASTERN UNIVERSITY SRI LANKA
THIRD YEAR FIRST SEMESTER EXAMINATION IN SCIENCE –
NOVEMBER, 2006
BT 303, PLANT BIOCHEMISTRY
(REPEAT)

Answer all questions

Time: 02 hours

1. (a) Out line the catabolic pathway of **Palmitoleoyl CoA** (C_{16} - Cis Δ^9 HexadecenoylCoA) (70 marks)
- (b) How many ATP molecules will be generated in the catabolism of one molecule of **Pamitoleoyl CoA** (30 marks)

2. Explain,
 - (a) How tricarboxylic acid cycle link the catabolism of protein (50 marks)
 - (b) The value of plant secondary compound (50marks)

3. Write an account on
 - (a) Lipids (50marks)
 - (b) All functions of Nucleotides (50marks)

4. (a) Out line the biosynthetic pathway of **Stearic acid** ($C_{18}:O$) (70marks)
- (b) Give the balance sheet energy involve in the synthesis of **Stearic acid** (30marks).