OLABISI ONABANJO UNIVERSITY CENTRE FOR SANDWICH PROGRAMMES DEPARTMENT OF BIOCHEMISTRY REMO CAMPUS, IKENNE.

2011/2012 HARMATTAN SEMESTER EXAMINATION DATE: 7th SEPT., 2012

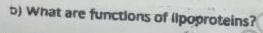
COURSE CODE: BCH 303

COURSE THILE: METABOLISM OF LIPIDS

TIME ALLOWED: 2 HOURS

INSTRUCTION: ANSWER QUESTION 1 AND ANY OTHER THREE QUESTIONS

- 1. a) Write short notes on the classification of lipids.
 - b) What are essential fatty acids? Give two examples.
- a) Describe the β-oxidation of Lauric acid, a 12-C fatty acid CH3(CH2)10COOH 2.
 - b) How much energy is produced after the complete oxidation of the fatty acid?
- 3 a) Define the following terms;
 - i. Miscelles
 - ii. Uposomes
 - III. Amphipatic compounds
 - Saturated fatty acids



- Write on the biosynthesis of Palmitic acid, a 16-9 fatty acid.
 - a) Write short notes on the biosynthesis of ketone bodies in the liver.
 - b) Differentiate between the following pairs:
 - i. Ketonuria and Ketonemia
 - ii. Low density lipoproteins and High density lipoproteins

