ULABISI VIII DEPARTMENT OF BIOCHEMISTA REMO CAMPUS, IKENNE 2009/2010 HARMATTAN SEMESTER EXAMINATION

COURSE CODE: BCH 303

COURSE TITLE: LIPID METABOLISM

TIME: 2 HOURS

DATE: MARCH 17TH 2010 INSTRUCTION: ANSWER ANY FOUR QUESTIONS.

- 1 (a) Describe the different kinds of lipids and include a nomenclature and
 - (b) Write the structure of 1-linoleyl-2-oleyl phosphatidylethanolamine.
 - 2 (a) Describe oxidation of even chain saturated fatty acid.
 - (b) Differentiate between β-oxidation and fatty acid biosynthesis
 - 3 (a) Describe the cholesterol biosynthesis starting with acetyl CoA as precursor.
 - (b) Explain how cholesterol biosynthesis is regulated
 - 4 (a) Describe to paction sequence in fauly acid synthesis.
 - (b) Write the strometry of palmitate synthesis.
 - Write short note on the following:
 - Lipoprotein. (3)
 - Essential fatty acids, (b)
 - Ketone bodies and ketosis. 101
 - Atherosclerosis. (d)
 - Sphingo!ipids.

- CH2CH2-HH3

Best of Luck.