OLABISI ONABANJO UNIVERSITY DEPARTMENT OF BIOCHEMISTRY REMO CAMPUS, IKENNE

2016/2017 HARMATTAN SEMESTER EXAMINATION

Course: BCH 303

Course Title: Metabolism of Lipids

Time Allowed: 2 hours Date: 17 February 2017

Instruction: Answer all questions

- / 1. (a) Define the following terms
 - i. Essential fatty acids
 - ii. Ketonuria
 - (b) List the four (4) pathways by which saturated fatty acids are oxidized
 - (c) Summarize the degradation of palmitic acid by stating the following
 - i. The number of cycles
 - ii. The total number of ATP generated
- 2. (a) Using pathways ONLY, describe the biosynthesis of ketone bodies
 - (b) List five (5) disorders of lipid metabolism
- -3. (a) List the classes of lipids and write briefly on one (1) of them.
 - (b) Write short notes on any one (1) of the following;
 - i. Prostaglandins
 - ii. Triacylglycerols
 - iii. Phospholipids
- 4. (a) What are amphipathic lipids?
 - (b) Write short notes on the following;
 - i. Lipid bilayer
 - ii. Micelles *

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