

DEPARTMENT OF BIOCHEMISTRY
OLABISI ONABANJO UNIVERSITY
REMO CAMPUS, IKENNE
2009/2010 HARMATTAN SEMESTER EXAMINATION

COURSE CODE: BCH 405 COURSE TITLE: METABOLIC REGULATION
DATE: 19TH March, 2010 TIME: 2HR

INSTRUCTION: ANSWER ANY FIVE (5) QUESTIONS

- 1a. Describe the sources and fate of Acetyl CoA
- b. Indicate the entries and exits of metabolites in the TCA cycle and explain how there events and regulation of the cycle.
- 2a. How are the genes of the lac-operon regulated?
- ✓ b. Describe feedback inhibition using a named pathway
- ✓ 3. "Proteins is essential for life survival". Justify the statement starting from liver proteins with the aid of appropriate pathway.
- ✓ 4. Discuss how the liver regulates the bio availability of plasma lipid with the aid of relevant pathway.
- ✓ 5a. Classify using two (2) relevant examples, each of metabolic regulation.
- b. Describe briefly how insulin and glucagons signals blood glucose level.
- ✓ 6. Describe with the aid of appropriate pathways how the plasma glucose level is bio maintained and bio-regulated.