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OLABISI ONABANJO UNIVERSITY

FACULTY OF BASIC MEDICAL SCIENCES

DEPARTMENT OF BIOCHEMISTRY

REMO CAMPUS, IKENNE

2012/2013 HARMATTAN SEMESTER EXAMINATIONS

BCH 405: METABOLIC REGULATIONS (2 UNITS)

INSTRUCTIONS: ANSWER ANY FOUR QUESTIONS. TIME ALLOWED: TWO HOURS.

- 1. Explain in detail, the basic concept of integrated metabolism.
- 2. Write comprehensive notes on the following (i) Lactose operon
 - (ii) Arabinose operon.
- 3. Explain the following (i) Feedback regulation
 - (ii) Allosteric regulation.
- 4. With the aid of useful and relevant illustrations, explain why it is important for a metabolic pathway to be regulated.
- 5. Catabolite repression is one of the ways that enables E. coli to utilize glucose, explain.
- 6. The activation of glycogen phosphorylase from the **b** form to **a** form involves presence o hormone. These effects are reversible when hormone disappears. Suggest reactions by such reversibility is achieved.

DROA AKINI ON A SCIONS