

BIOCHEMISTRY DEPARTMENT
OLABISI ONABANJO UNIVERSITY

2013/2014 HARMTAN SEMESTER EXAMINATION

Course Code: BCH 401

Course Title: Advanced Enzymology

Time Allowed: 2 hours

Instruction: Answer question one and any other three questions

Date: 03/10/2014

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1. (a) Write short note on the various techniques used in transient enzyme kinetics.
(b) Define the following terms:
(i) K_m (ii) K_{cat} (iii) Transient enzyme kinetics (iv) Steady state kinetics
(c) List four major mechanisms used by enzymes during catalysis
 2. (a) what is multienzyme complex?
(b) Give four examples of multienzyme complexes
 3. Write concisely why enzyme activities are regulated and the various methods used in regulating them.
 4. (a) What are regulatory enzymes?
(b) Some Allosteric enzymes respond to their modulators with changes in either K_m or V_{max} discuss
 5. (a) Discuss the MWC model of allosterism
(b) Differentiate between concerted and sequential allosterism
- activity to 1