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**OLABISI ONABANJO UNIVERSITY**  
**DEPARTMENT OF BIOCHEMISTRY**

**2014/2015 HARMATTAN SEMESTER EXAMINATION**

**COURSE CODE: BCH 401**

**TIME ALLOWED: 3 HOURS**

**COURSE TITLE: Advanced Enzymology**

**DATE: Wednesday, 24th June, 2015**

**INSTRUCTION: Answer any five (5) questions.**

1. (a) Discuss the molecular models of Allosterism.  
(b) What are regulatory enzymes?
2. (a) Write a short note on Enzyme Assay.  
(b) Name five instruments used in measuring enzyme activities.
3. (a) Write a short note on enzyme reconstitution.  
(b) Name five (5) factors that can denature an enzyme.
4. (a) Differentiate between a multi-enzyme complex and a multi-enzyme system.  
(b) With a named example, describe the mechanism of action of a multi-enzyme complex.
5. (a) Differentiate between Steady and Transient State Kinetics.  
(b) Explain the methods used in measuring the Transient State Kinetics.
6. Write a short note on five (5) criteria for determining the purity of an enzyme.
7. Enzyme activities and synthesis are regulated.  
(a) Why?  
(b) How?