

OLABISI ONABANJO UNIVERSITY
FACULTY OF BASIC MEDICAL SCIENCES
DEPARTMENT OF BIOCHEMISTRY
REMO CAMPUS, IKENNE

2010/2011 HARMATTAN SEMESTER EXAMINATION

COURSE TITLE: METABOLISM OF AMINO ACIDS AND PROTEINS

COURSE CODE: BCH 305

INSTRUCTION: ANSWER ANY FOUR (4) QUESTIONS

DATE: 4th JULY, 2011

TIME: 2 HOURS

1. Write a review on protein conformation.
b. Describe the overall 3-dimensional arrangements of atoms in a named protein.
2. Briefly discuss the biological significance of a named contractile protein.
b. upon degradation of amino acids, describe the fate of the amino group.
3. Write short notes on the followings:
 - i. Hydrogen bond
 - ii. Peptide bond
 - iii. Disulphide bond
 - iv. Ion binding
4. Discuss extensively the process of the synthesis of urea.
5. Explain the followings:
 - a. Maple syrup urine disease
 - b. Citrullinemia
 - c. Alkaptonuria
 - d. Hypertyrosinemia