

OLABISI ONABANJO UNIVERSITY  
DEPARTMENT OF BIOCHEMISTRY  
REMO CAMPUS, IKENNE

KOMXX

2006/2007 HARMATTAN SEMESTER EXAMINATION

COURSE CODE: BCH 407

COURSE TITLE: TISSUE BIOCHEMISTRY

DATE: 22<sup>ND</sup> OCTOBER, 2007

TIME ALLOWED: 2 HOURS

INSTRUCTION: ANSWER AT LEAST ONE QUESTION FROM EACH SECTION.  
ANSWER FOUR (4) QUESTIONS FROM ALL

SECTION A

1. What are the pathological classifications for testing liver disease.
2. Using physical and chemical characteristics (5 each), write briefly on abnormal constituents of urine.

SECTION B

3. Tunde has won several medals for his Institution as a "specialist" in 4x4 relay race. During the last inter-university games, Tunde was drafted to run in a 10,00M race in order to save his Institution from a foreseen disgrace. It however proved that drafting Tunde to run in the race was a disaster.
  - (i) As a Biochemist, explain why Tunde could not perform to expectation in the race and discuss how muscular contraction is sustained in a long distance runner.
  - (ii) Explain the sliding filament model of muscular contraction.
- 4(a) Clearly explain the roles of
  - (i) Rhodopsin
  - (ii) Vitamin Ain visual activity.
- (b) Mention 2 diseases associated with vision and briefly discuss the Biochemistry of any one (1) of them.

SECTION C

- (a) Write a short note on adrenal gland.
- (b) Describe how the interaction of hormone with its receptor on the membrane results in the production of cAMP.

Write short notes on the following:

- (i) Carcinogens
- (ii) Oncogenes
- (iii) Tumour Suppressor gene