FACL

TO MEDICAL SCIENCES

DEPARTMENT OF BIOCHEMISTRY

REMO CAMPUS, IKENNE

2010/2011 HARMATTAN SEMESTER EXAMINATION

COURSE TITLE: METHODS IN BIOCHEMISTRY

TIME: 2 HRS

COURSE CODE: BCH 309

DATE: 29TH JUNE, 2011

INSTRUCTIONS: Answer question one (1) and any other three (3) questions

- 1. Chromatography is a major technique in analytical chemistry. Discuss.
- Describe briefly the principle and procedure involved in the electrophoretic separation by gels which
 employs sodium dodecylsulphate (SDS).
- 3 a. What is isoelectric focusing?
 - b. Electrophoresis is the method of choice for assessing protein purity, yet it is not frequently used as a purification step. Why?
- 4 a. In most centrifugation techniques, the rotors are usually mounted on a rigid suspension. Describe the various precautions involved in this technique.
 - b. Differentiate between large capacity refrigerated centrifuge and High speed refrigerated centrifuge.
 - c. What is the need for the incorporation of an overspeed control system in preparative ultracentrifuges?
- 5 a. What is colorimetry?

1.5 das

b. What is the major difference between spectrophotometry and colorimetry?

c. When working with a spectrophotometer in the laboratory, state the precautions to be observed.