

**OLABISI ONABANJO UNIVERSITY
DEPARTMENT OF BIOCHEMISTRY
REMO CAMPUS, IKENNE**

2016/2017 HARMATTAN SEMESTER EXAMINATION

Course: BCH 309

Course Title: Methods in Biochemistry

Time Allowed: 2 hours

Date: 27 February 2017

Instruction: Answer all questions

1. (a) List the five (5) major chromatographic techniques that there are
(b) Write a short note on any one of the mentioned techniques

2. (a) Define the following terms
i. Isotopic labelling
ii. Radioisotopic labelling

(b) Give the two (2) ways a radioactive decay can be detected in chemical or biochemical samples

(c) Give any two (2) isotopic elements commonly used in chemical or biochemical detection

3. (a) What is a buffer? Give two (2) examples

(b) How will you prepare 1 litre 0.1M acetate buffer of pH 5.3, pKa 4.76 given the density of acetic acid to be 1.18.

(c) Write on the strength of acids

4. (a) What is electrophoresis?

(b) On what principle does the technique in (a) based?

(c) What are its uses?