OLABISI DNABA SO UNIVERSITY

FACULTY OF BASIC MEDICAL SCIENCES

DEPARTMENT OF BIOCHEMISTRY

REMO CAMPUS, IKENNE

2010/2011 HARMATTAN SEMESTER EXAMINATION

COURSE TITLE: ADVANCED BIOCHEMICAL METHODS

TIME: 2 HRS

DATE: 6TH JULY, 2011

COURSE CODE: BCH 415

INSTRUCTIONS: ANSWER ALL QUESTIONS

- a) Explain the following:
 - i. Molarity
- ii. Normality
- iii. Concentration

- b) How will you prepare
 - i. 500ml of 0.5M HCl given % purity of the stock HCl is 36% "/, and
 - specific gravity = 1.18
- ii. 250ml of 4% */, NaOH from 10% */, NaOH

- a) List out
 - i. The various techniques of chromatography
 - ii. The forms of chromatography
 - b) The table below shows the outcome of an experiment on chromatography. Fill in the gaps on the table

	Distance moved by	Distance moved by	R _f Value
Sample	solvent (cm)	6.2	
	7(2)	6.0	
A	6.7	7.3	0.87
В		1.3	0.58
C	5.5		
D	9.6	7.3	

- With a labelled diagram, show how sample A in the above table will look like when running the
- 3. a) State: i. The principle by which the extraction of egg albumin by the salting out method could be achieved. ii. The principle by which the purification of the protein could be obtained.
- What is spectrophotometer . /
 - 5) State the physical process involved when using spectrophotometer to assay a sample.
 - Sketch a diagram to show the various devices that make-up a spectrophotometer.