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FACULTY OF BASIC MEDICAL SCIENCES
DEPARTMENT OF BIOCHEMISTRY
REMO CAMPUS, IKENNE

2013/2014 RAIN SEMESTER EXAMINATIONS

BCH 312- INSTRUMENTAL METHODS OF ANALYSIS

INSTRUCTION: ANSWER ANY FOUR (4) QUESTIONS. TIME ALLOWED: 2 HOURS

- ✓ 1. Explain the principle, technique and applications of centrifugation method of analysis.
- ✓ 2. With the aid of illustration(s), explain the mode of operation and working principle of a double beam spectrophotometer.
- ✓ 3. You are provided with a solution containing mixture of four proteins of different molecular weight, Explain in detail, how you would separate and purify these proteins.
- ✓ 4. (i) What is meant by the term "electrophoresis"
(ii) Of what advantage is SDS polyacrylamide gel electrophoresis over ordinary polyacrylamide gel electrophoresis.
✓ (iii) What is the function of Tetra methylethylenediamine (TEMED) and ammonium persulphate in the casting of polyacrylamide gel.
5. Write comprehensive essay on the mode of operations and applications of fluorimeter.