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FACULTY OF BASIC MEDICAL SCIENCES
BIOCHEMISTRY DEPARTMENT
2017/2018 RAIN SEMESTER EXAMINATION

Bms/16/16/0066

Course code: BCH 312

Date: 24th July, 2018

Course Title: Instrumental Methods of Analysis

Time: 2 hours

Instruction: Answer four (4) questions in all. At least one question from each section

SECTION A

1. (a) Write short note on the following; i. pH meter ii water bath
(b) Differentiate between a silver electrode and reference electrode
2. List four types of centrifuge and write short note on any of them.

SECTION B

3. With the aid of a diagram only, briefly describe the process involved in flame photometry.
b. Explain the following terms:
 - i. Transmittancy
 - ii. Emergent light
 - iii. Transmittance
 - iv. Incident light
 - v. Extinction coefficient
4. Based on the principles and mode of operations, differentiate between a refluxing apparatus and a vacuum suction pump.

SECTION C

5. Which technique would you use to separate fragments made by cutting plasmid pRS287 with *EcoRI* and *NcoI* endonucleases. Briefly describe the principles involved in the technique used.
6. Describe the components used in column chromatography

