

OLABISI ONABANJO UNIVERSITY
DEPARTMENT OF BIOCHEMISTRY
REMO CAMPUS, IKENNE

2016/2017 HARMATTAN SEMESTER EXAMINATION

Course: BCH 409

Course Title: Genetic Engineering

Time Allowed: 2 hours

Date: 17 February 2017

Instruction: Answer all questions

1. Define nucleic acid hybridization and list the factors that affect hybridization
2. What are probes? Explain the two types of probes
3. (a) What are restriction endonucleases?
(b) Give two (2) examples of restriction endonucleases and highlight their specificities.
(c) Write a short note on how restriction fragments can be separated and visualized.
4. (a) Write a short note on Sanger's enzymatic method of DNA sequencing
(b) Define polymerase chain reaction (PCR)
(c) A Forensic Analyst is about to work on DNA sample obtained from a crime victim and would require PCR technique prior to further analysis. List four (4) requirements for polymerase chain reaction

Ethidium Bromide

Alu