

Bms (14/15/0563

OLABISI ONABANJO UNIVERSITY
DEPARTMENT OF BIOCHEMISTRY
SAGAMU CAMPUS, SAGAMU

2017/2018 HARMATTAN SEMESTER EXAMINATION

Course: BCH 409

Course Title: Genetic Engineering

Time Allowed: 2 hours

Date: 02 February 2018

Instruction: Answer all questions

1. List the hybridization techniques and give brief explanation on what hybridization is?
2. (a) What is a probe?
(b) List the type of labelling
(c) What are the uses of probe?
3. (a) Write a short note on restriction endonucleases?
(b) Give the recognition sequence of the following restriction enzymes and highlight their Cleavage sites:
 - (i) *Bam*HI
 - (ii) *Eco*R \dagger
 - (iii) *Hae*III
4. (a) Highlight three (3) uses of Southern blotting
(b) Describe Sanger's enzymatic method of DNA sequencing

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PCR
genetic cloning
Restriction