

01/12/13/0054

DEPARTMENT OF BIOCHEMISTRY
FACULTY OF BASIC MEDICAL SCIENCES
OLABISI ONABANJO UNIVERSITY
IKENNE CAMPUS

B.Sc Biochemistry Examination 2015/16 Session
HAMATTAN SEMESTER

Course code: BCH 409 Course Title: Genetic Engineering.

Part II: Essay

Time Allowed: 1hr 15min

Instruction: Answer Question 1 and one other question

1. Write notes on the principle and applications of the following:

- (i) Genomic library
- (ii) Southern blotting
- (iii) ELISA technique
- (iv) Restriction map
- (v) Hybridization
- (vi) DNA sequencing

(30 marks)

2. Outline the various enzymes utilized in molecular cloning and state the functions in each case.

(20 marks)

3. i. How would you generate a DNA probe for screening a genomic library.
ii. How is genomic library different from cDNA library

(20 marks)