



CRAWFORD UNIVERSITY

FAITH CITY IGBESA OGUN STATE

2020/2021 RAIN SEMESTER EXAMINATION

COLLEGE OF NATURAL AND APPLIED SCIENCES

DEPARTMENT OF BIOLOGICAL SCIENCES

Program: Biochemistry

Course Code: BCH202

Course Title: Introduction to Biotechnology

Course Unit:

Times: 2hrs

Instructions: Attempt Four Questions Only

(a) Define the following (i) Biotechnology (ii) Bioinformatics (iii) Computational biology (7.5 marks)

b. Enumerate seven (7) benefits of Human genome project.(7.5 marks)

2 (a) Describe clearly the process of gene banking (7.5 marks)

(b) State clearly seven (7) differences between Traditional biotechnology and Modern biotechnology.(7.5 marks)

3 (a) Define the following (i) genomics (ii) proteomics (iii) cistron (iv) mutan and (v) Translation in gene expression(5marks)

(b)Discuss the Legal, Social and Ethical implications of the human genome project.(10 marks)

4 (a) How would you prevent the miss use of Biotechnology .(7marks)

(b) Discuss biotechnology as an interdisciplinary science.(8marks)

5 (a) Enumerate seven (7) products of Biotechnology.(3.5marks)

(b) Differentiate between DNA and RNA.(11marks)

6. (a) Describe the chemical and physical structure of DNA using well labeled diagram.(6marks)

(b) Write short notes on the following (i) achievements of biotechnology in Agriculture (4.5marks)

(ii) Achievement of biotechnology in Health care .(4.5marks)