



CRAWFORD UNIVERSITY
FAITH CITY, IGBESA, OGUN STATE
2018/2019 RAIN SEMESTER EXAMINATIONS
COLLEGE: NATURAL AND APPLIED SCIENCES

DEPARTMENT: BIOLOGICAL SCIENCES

PROGRAMME: BIOCHEMISTRY COURSE CODE: BCH 202

COURSE TITLE: INTRODUCTION TO BIOTECHNOLOGY COURSE UNIT: 3

INSTRUCTION: ANSWER ANY FOUR QUESTIONS TIME ALLOWED: 3HRS

1. Define the following terms: (a) (i) Biotechnology (ii) Bioinformatics
(b) Explain why Biotechnology is an interdisciplinary science.
2. (a) Enumerate five differences between traditional biotechnology and modern Biotechnology.
(b) Traditional biotechnology is a "kitchen technology" comment.
3. (a) Describe the chemical structure of DNA (Illustrate your answer with labeled diagrams)
(b) Explain the reasons behind the use of RNA molecule as a genome in some viruses, even though this does not obey the rule of the Central Dogma.
4. (a) Differentiate between DNA and RNA Molecules (supply ten points only).
(b) Describe five methods that could be applied to control the misuse of biotechnology.
5. (a) Differentiate between Purines and Pyrimidines (support your answer with Diagrams)
(b) Describe the following (i) Histones (ii) Cistrons (iii) muton (iv) Recons and (v) HGP.
6. (a) Enumerate five biotechnology drugs and five fermentation products.
(b) What are the advantages of biotechnology.