



CRAWFORD UNIVERSITY

FAITH CITY, IGBESA, OGUN STATE

2016/2017 HARMATTAN SEMESTER EXAMINATIONS

COLLEGE: NATURAL AND APPLIED SCIENCES

DEPARTMENT: BIOLOGICAL SCIENCES

PROGRAMME: B.Sc BIOCHEMISTRY

COURSE CODE: BCH 427

COURSE TITLE: ADVANCED NUTRITIONAL BIOCHEMISTRY.

STATUS: ELECTIVE.

UNIT:2

INSTRUCTION: Answer any **FOUR** questions

TIME ALLOWED: 2 HOURS

- 1 (a) Classify minerals and highlight its functions.
(b) Discuss fully any FOUR of the following minerals.
(i) Sodium (ii) Iodine (iii) Magnesium (iv) Iron (v) Zinc
- 2 (a) List FOUR differences between fat soluble and water soluble vitamins.
(b) Discuss any FOUR of the following vitamins. Illustrate your answers with diagrams.
(i) Riboflavin (ii) Niacin (iii) Pyridoxine. (iv) Vitamin A. (v) Vitamin K
- 3 (a) Explain Genetically Modified Foods and discuss the benefits.
(b) Highlight the controversies associated with genetically modified foods.
- 4 (a) What do you understand by the term "Food Spoilage"?
(b) Explain concisely the biochemical changes associated with food spoilage.
- 5 (a) Discuss the benefits of food processing.
(b) How does food processing affect the nutrients present in foods?
- 6 (a) What do you understand by the term "Food Safety"?
(b) Explain food safety laws and regulation.