



CRAWFORD UNIVERSITY

FAITH CITY, IGBESA, OGUN STATE

2017/2018 HARMATTAN SEMESTER EXAMINATIONS

COLLEGE: NATURAL AND APPLIED SCIENCES

DEPARTMENT: BIOLOGICAL SCIENCES

PROGRAMME: B.Sc BIOCHEMISTRY

COURSE CODE: BCH 427

UNIT:2

COURSE TITLE: ADVANCED NUTRITIONAL BIOCHEMISTRY.

STATUS: ELECTIVE.

INSTRUCTION: Answer any **FOUR** questions

TIME ALLOWED: 2 HOURS

- 1 (a) Discuss the following vitamins. Illustrate your answers with diagrams.
 - (i) Thiamine (ii) Niacin (iii) Pyridoxine. (iv) vitamin A.
 - (b) Enumerate **FOUR** differences between fat soluble and water soluble vitamins.
- 2 (a) Explain in detail Food Toxicity.
 - (b) Discuss food safety laws and regulation.
- 3 (a) Give an account of the benefits of food processing.
 - (b) Discuss elaborately how food processing affect the nutrients present in foods?
- 4 (a) Define Genetically Modified Foods and discuss its benefits.
 - (b) Highlight the controversies associated with genetically modified foods.
- 5 (a) Explain briefly the process of Food-Spoilage.
 - (b) Discuss the biochemical changes associated with food spoilage.
- 6 Explain concisely the health implication of excess and inadequate calorie intakes.