



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 422

COURSE TITLE: SPECIAL TOPICS IN HORMONAL BIOCHEMISTRY.

STATUS: ELECTIVE.

UNIT: 2.

TIME: 2 HOURS

INSTRUCTION: ANSWER ANY FOUR (4) QUESTIONS

- 1 Discuss the mechanism of action of the following:
(a) Cyclic Adenosine monophosphate (b) Nitric oxide.
Illustrate your answer with appropriate diagram.
- 2 Explain briefly second messengers with respect to hormonal action.
- 3 (a) Give an account of the biosynthesis of a named steroid hormone.
Illustrate your answers with diagrams.
(b) How are hormones different from enzymes?
- 4 Discuss the biochemical and physiological functions of the following classes hormones:
(a) Androgens (b) Estrogens
- 5 Explain briefly the diseases associated with hormonal imbalance.
- 6 Explain fully on any ONE of the following:
(a) Gastrointestinal hormones
(b) Menstral cycle.