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**UNIVERSITY EXAMINATIONS  
2022/2023 ACADEMIC YEAR**

**THIRD YEAR FIRST SEMESTER**

**SUPPLEMENTARY EXAMINATIONS**

**FOR THE DEGREE OF BACHELOR OF SCIENCE IN BIOLOGY**

**COURSE CODE: SZL 321**

**COURSE TITLE: ENDOCRINOLOGY**

**DATE: 9<sup>TH</sup> AUGUST 2023**

**TIME: 11.00 -1.00 PM**

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**INSTRUCTIONS TO CANDIDATES**

Answer Question One (1) and any other two (2) Questions.

Question One is compulsory and carries 30 marks, the other Questions carry 20 marks each.

**TIME: 2 Hours**

This paper consists of 3 printed pages. Please Turn Over



### QUESTION 1

- a) Definition of terms as used in endocrinology
  - i. Classical hormone (2marks)
  - ii. Transducers (2marks)
  - iii. Nuclear receptors (4marks)
  - iv. Intracellular hormones (3 marks)
- b) Five glands that form the classical endocrine system (5marks)
- c) State the characteristics of hormone receptors (5marks)
- d) Give five functions of the endocrine system (5marks)
- e) State the five classes of hormones (5marks)

### QUESTION 2

(20 marks)

Explain the internal and external factors that control body functions

### QUESTION 3

(20marks)

Discuss the levels of structural organization, body fluids, homeostasis and control systems of animals

### QUESTION 4

(20 marks)

Describe the organization of tissues and organs in animal bodies

### QUESTION 5

(20 marks)

Describe the structure and function of the animal body organ systems, the endocrine, respiration, digestive, urinary and reproductive systems