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**MAASAI MARA UNIVERSITY**

**REGULAR UNIVERSITY EXAMINATIONS**

**2016/2017 ACADEMIC YEAR**

**THIRD YEAR FIRST SEMESTER**

**SCHOOL OF SCIENCE AND INFORMATION SCIENCES**

**FOR THE DEGREE OF BACHELOR OF EDUCATION (SCIENCE)**

**COURSE CODE: ZOO 318E**

**COURSE TITLE: COMPARATIVE ENDOCRINOLOGY**

**DATE: 3RD JULY 2017 TIME: 1100-1300 HRS**

**INSTRUCTIONS TO CANDIDATES**

1. **Answer ALL the Questions in Section A**
2. **Answer ANY TWO Questions in Section B**
3. **Illustrate your answers with well labeled diagrams where appropriate**

**SECTION A: answer ALL questions (30 marks)**

1. Explain the term exocrine gland **(3 marks)**
2. List three releasing hormones from the hypothalamus **(1 Mark)**
3. Name three hormones secreted by the pituitary gland **(4 marks)**
4. Explain the role of calcitonin **(3 marks)**
5. Outline three symptoms of hyperthyroidism **(4 marks )**
6. What is the effect of overproduction of parathyroid hormone **(2 marks)**
7. Name endocrine glands in insects **(2 marks)**
8. a. Name the gland that secretes hormone oxytocin **(1 mark)**

b. State the physiological role of oxytocin **(3 marks)**

1. Outline the role played by hormone testosterone in male **(3 marks)**
2. List three female secondary sexual characteristics **(4 marks)**

**SECTION B: ANSWER ANY TWO QUESTIONS (40 Marks)**

1. Discuss the endocrine role of the pancreas. **(20 marks)**
2. Describe the role of thyroid gland and symptoms of hypothyroidism.

**(20 marks)**

1. Describe the role of parathyroid hormone and deficiency symptoms.

**(20 marks)**

1. Discuss osmoregulation in insects.  **(20 marks)**

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