



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE & TECHNOLOGY
SCHOOL OF BIOLOGICAL, PHYSICAL, MATHEMATICS AND ACTUARIAL
SCIENCES**

**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN
BIOLOGICAL SCIENCES
4th YEAR 1st SEMESTER 2022/2023 ACADEMIC YEAR
MAIN CAMPUS - REGULAR**

COURSE CODE:	SBB1401
COURSE TITLE:	HUMAN REPRODUCTIVE AND ENDOCRINE FUNCTIONS
EXAM VENUE: ZOO LAB	STREAM: (BSC)
DATE: 5/12/2022	EXAM SESSION: 9.00-11.00AM
TIME: 2 HOURS	

Instructions:

- 1. Answer ALL questions in Section A and Any two questions in Section B**
 - 2. Candidates are advised not to write on question paper**
 - 3. Candidates must hand in their answer booklets to the invigilator while in the examination room**
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SECTION A: SHORT ANSWER QUESTIONS (30 MARKS)

1. Explain the consequences of the failure of testes to descend from the abdominal cavity into the scrotal sac (3 marks)
2. Outline the steps involved during sex differentiation in fetus (3 marks)
3. Explain the role of testosterone in spermatogenesis (3 marks)
4. Outline the composition and functions of the seminal fluid (3 marks)
5. State six qualities of semen required for fertilization (3 marks)
6. State the three layers of uterus and their functions (3 marks)
7. State the effects of estrogen on the fallopian tubes (3 marks)
8. Explain the fate of corpus luteum if the ovum is fertilized (3marks)
9. Explain the effects of progesterone on the cervix and mammary glands (3 marks)
10. State any six features of eclampsia (3 marks)

SECTION B: ESSAY QUESTIONS (40 MARKS)

11. Describe the functional neuronal stimulation for the performance of male sexual act (20 marks)
12. Giving specific examples, describe the uterine changes that accompany the menstrual cycle (2h0 marks)
13. Write an essay on the endocrine functions of the placenta (20 marks)
14. Describe control of male sexual functions by hormones from the hypothalamus and anterior pituitary gland (20 marks)