



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE &
TECHNOLOGY
SCHOOL OF BIOLOGICAL AND PHYSICAL SCIENCES
UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE IN BIOLOGICAL SCIENCES
4TH YEAR 1ST SEMESTER 2019/2020 ACADEMIC YEAR
MAIN CAMPUS - REGULAR**

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| COURSE CODE: | SBI 3411 |
| COURSE TITLE: | Human Reproductive and Neuroendocrine Functions |
| EXAM VENUE: | STREAM: (BSC. BIO) |
| DATE: | EXAM SESSION: |
| 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 two ways by which prostaglandins aid fertilization. (3 marks)
2. With specific examples, explain any three causes of male sterility. (3 marks)
3. Describe the neuroendocrine control of male penile erections. (3 marks)
4. Explain the mechanism that ensures that only one sperm enters oocyte. (3 marks)
5. Describe the functions of male prostate gland. (3 marks)
6. Name any two types of ovarian sex hormones and their functions. (3 marks)
7. Explain the role of gonadotropic hormone in puberty and menarche. (3 marks)
8. Explain the rhythm method of contraception. (3 marks)
9. Describe any three effects of Oxytocin on the Uterus. (3 marks)
10. State any three special effects of progesterone that are essential for the normal progression of pregnancy. (3 marks)

SECTION B: ESSAY QUESTIONS (40 MARKS)

11. Describe the control of male sexual functions by hormones from the hypothalamus and anterior pituitary gland. (20 marks)
12. Using specific examples, describe abnormalities of male sexual function. (20 marks)
13. Describe the female sexual act. (20 marks)
14. Describe the developmental and physiologic anatomy of the placenta. (20 marks)