**CHUKA** 



### UNIVERSITY

# **UNIVERSITY EXAMINATIONS**

# FOURTH YEAR EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF SCIENCE

**BIOC 426: REPRODUCTIVE BIOCHEMISTRY** 

STREAMS: Y4S2

**TIME: 2 HOURS** 

DAY/DATE : WEDNESDAY 22 /09/ 2021 11.30 AM – 1.30 PM

#### **INSTRUCTIONS TO CANDIDATES:**

- Answer Question One and any other Two Questions.
- DO NOT WRITE ANYTHING on the question paper.

### **QUESTION ONE (COMPULSORY) 30 MARKS**

a) Explain 3 causes of Male Infertility. [6 Marks]
 b) Describe the mechanism jof erection, lubrication and orgasm in human female. [7 Marks]
 c) Explain hormonal control of mammary glands during pregnancy. [4 Marks]
 d) Outline any 6 commonly prescribed ovulation drugs. [3 Marks]

e) Highlight 5 features of toxaemia (pre-eclampsia) in pregnancy. [5 Marks]

f) Explain the pathogenesis and treatment of syphilis. [5 Marks]

#### **QUESTION TWO (20 MARKS)**

- a) Demonstrate the biosynthesis pathway of prostaglandins and explain their role in childbirth. [10 Marks]
- b) Explain 5 causes of defective ovulation. [10 Marks]

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# **QUESTION THREE (20 MARKS)**

a)	Describe the events during oogenesis that produce haploid oocyte from diploid cells.	•
	[10 Mark	S

b) Discuss the classification of oral contraceptives, formulations and their mode of action.

[10 Marks]

## **QUESTION FOUR (20 MARKS)**

- a) Discuss three accessory glands and their functions associated with male reproductive system in mammals.
   [7 Marks]
- b) Explain why a woman may feel cramping pains in her abdomen when she is menstruating. [3 Marks]
- c) Discuss in detail classification of reproduction based on the way mammals reproduce. [10 Marks]

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