

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF AGRICULTURAL AND FOOD SCIENCES

THIRD YEAR SEMESTER ONE UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN ANIMAL SCIENCE

2022/2023 ACADEMIC YEAR

COURSE CODE: AAB 1309

COURSE TITLE: Animal Reproduction and Technology

EXAM VENUE: STREAM: Bachelor of Science (Animal Science)

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 the question paper.
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.

SECTION A [20 MARKS]

Answer ALL questions from this Section.

Question 1

a)	Reproduction.	(1 mark)
b)	Binary fission.	(1 mark)
c)	Oestrous cycle.	(1 mark)
d)	Parturition.	(1 mark)
e)	Reproduction technology.	(1 mark)

Question 2

Differentiate between the following:

(2 marks)
(2 marks)
(2 marks)
(2 marks)

Question 3

a) Differentiate between reproduction in birds such as hen and mammals such as cow

(2 marks)

- b) State the main steps in embryo transfer. (3 marks)
- c) When is appropriate to use fresh semen? (2 marks)
- d) What are the advantages of fresh semen over frozen semen? (3 marks)
- e) List five reproduction technologies that have been used in farm animals. (5 marks)

SECTION B [30 MARKS]

Answer TWO questions from this Section.

Question 4

Discuss artificial insemination under the following:

a)	Semen collection.	(10 marks)
b)	Semen processing.	(10 marks)

Question 5

Write short notes on the following:

Multiple ovulations.	(4 marks)
Donor female.	(4 marks)
In vitro fertilization.	(3 marks)
Sexed semen.	(4 marks)
Assisted reproductive technologies	(5 marks)

Question 6

Discuss reasons for the low adoption of reproduction technology with reference to animal production in Kenya. (20 marks)