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NATIONAL OPEN UNIVESITY OF NIGERIA

Faculty of Agricultural Sciences Department of Animal Science and Fisheries First Semester Examination, April 2019

Course: ANP306: Animal Physiology Reproduction and Growth

Credit Unit: 2

Time Allowed: 2 hours.

INSTRUCTIONS: Answer question one (Compulsory: 25 Marks) and any other THREE (15

marks each)

QUESTION 1

i. Highlight five (5) methods that a farm manager uses to collect semen in most farm animals.

2 marks

ii. State five (5) methods of farm animal semen storage and preservation.

Give the degree centigrade and shelf life of the stated methods 12 marks

iii. Enumerate the principles and application of semen preservation 8 marks

iv. List 6 factors affecting fertility during artificial insemination 3 marks

QUESTION 2

i. What is parturition?
 ii. What are the problems associated with maintaining high reproductive efficiency?
 iii. Explain briefly the different stages of parturition
 2 marks
 3 marks
 9 marks

QUESTION 3

i. What is implantation of embryo? 1 marks

ii. Briefly describe the concept of fertilization in mammals 5 marks

iii. Elucidate on the activities of three types of signals that stimulate and inhibit hormone secretion.

9 marks

QUESTION 4

- i. Enumerate five (5) principal hormones produced by the anterior lobe of the pituitary and state the condition under which they are released. 8 marks
- ii. What are the functions of follicle stimulating hormone and luteinizing hormone 4 marks
- iii. What are responsible for vasopressin release under the conditions of low blood volume (hypovolemia) and increased osmotic pressure of the blood. 3 marks

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QUESTION 5

i.	What is artificial insemination?	2 marks
ii.	State the classification of types of placentation according to their gross shape.	. Give one
	example of each.	5 marks
iii.	What are the advantages and disadvantages of Artificial insemination?	8 marks

QUESTION 6

i.	Define the term Diabetes mellitus?	2 marks
ii.	Highlight the three primary types and effects of Diabetes mellitus.	6 marks
iii.	What are the established causes of Hypoglycemia of Cortisol	that results in Cushing's
	Syndrome	4 marks
iv.	Highlight maternal requirements for normal birth of an animal.	3 marks