

UNIVERSITY OF EMBU

2021/2022 ACADEMIC YEAR

SECOND SEMESTER EXAMINATIONS

FIRST YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN

AGRICULTURAL EDUCATION AND EXTENSION

AVP 101: ANIMAL PHYSIOLOGY

DATE: APRIL 5, 2022

ISO 27001:2013 Certified

TIME: 2.00 - 4.00PM

INSTRUCTIONS:

Answer Question ONE and ANY Other TWO Questions.

QUESTION ONE (30 MARKS)

a) Giving examples, explain the following terminologies as used in animal physiological systems.

			es en	(Z marks)
		i)	Positive feedback	(2 marks)
		ii)	Control System	(2 marks)
		iii)	Homeostasis	(2 marks)
		iv)	Metabolism	(2marks)
b)	Explain the main difference between a vein and an artery			W
c)	Explain the main difference between a state where the following hormones are produced and their major effect in humans:		(2 marks)	
	i)	ii) Insulin		(2 marks)
	ii)			(2 marks)
	iii)			(2 marks)
	iv) Oestrogen			





(2 marks)

d)	One of your classmate has been experiencing the following symptoms: No sexual u	rge, digestior		
	problem, breathing problems and difficult in urination. Identify and explain the likely body			
	system associated with this problem.	(4 marks)		

Outline the main functions of Cardiovascular system e)

(4 marks)

What is your understanding of a master gland? f)

(2 marks)

Why is bleaching of your skin unhealthy? g)

(2 marks)

h) Name the two hormones that are most important in the development of the secondary (2 marks) characteristics of a female and a male?

OUESTION TWO (20 MARKS)

Discuss how the air we breathe in is transported and exchanged in the body systems.

(20 marks)

OUESTION THREE (20 MARKS)

Explain to a dairy farmer the process of embryo formation in a mammalian animal.

(20 marks)

OUESTION FOUR (20 MARKS)

A ruminant animal is physiologically designed to survive on grass/ shrubs/herbs and other greens. (20 marks) Discuss how this is accomplished.

OUESTION FIVE (20 MARKS)

- a) An unknown disease has 'invaded' your skeletal muscles. What are the possible consequences of (15 marks) this "invasion"?
- b) Describe five (5) areas of the body where smooth muscles are found

(5marks)

-END-

