

UNIVERSITY OF EMBU

2016/2017 ACADEMIC YEAR

SECOND SEMESTER EXAMINATION

FIRST YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN

AGRICULTURAL EDUCATION AND EXTENSION

AVP 101: ANIMAL PHYSIOLOGY

DATE: APRIL 5, 2017 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 physiologic	ical
	systems.	

	i) Positive feedback	(2 Marks)	
	ii) Control System	(2 Marks)	
	iii) Homeostasis	(2 Marks)	
	iv)Metabolism	(2 Marks)	
b)	Explain the main difference between a vein and an artery	(2 Marks)	
c)	State where the following hormones are produced and their major effect in humans:		
	i) Adrenaline	(2 Marks)	
	ii) Insulin	(2 Marks)	
	iii) Testosterone	(2 Marks)	
	iv) Oestrogen	(2 Marks)	

d)	One of your classmates has been experiencing the following symptoms: No sexual urge,			
	digestion problem, breathing problems and difficult in urination. Identify and e	xplain the		
	likely body system associated with this problem.	(4 Marks)		

e) Outline the main functions of Cardiovascular system

(4 Marks)

f) What is your understanding of a master gland?

(2 Marks)

g) Why is bleaching of your skin unhealthy?

(2 Marks)

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

QUESTION TWO

Discuss how the air we breathe in is transported and exchanged in the body systems. (20Marks)

QUESTION THREE

Explain to a dairy farmer the process of embryo formation in a mammalian animal. (20 Marks)

QUESTION FOUR

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

QUESTION FIVE

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

END

