

# MASENO UNIVERSITY **UNIVERSITY EXAMINATIONS 2016/2017**

## SECOND YEAR SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN ANIMAL SCIENCE WITH INFORMATION **TECHNOLOGY**

### **MAIN CAMPUS**

AAN 204: ENVIRONMENTAL PHYSIOLOGY, ETHOLOGY & ANIMAL WELFARE

Date: 9th June, 2017

Time: 12.00 - 3.00pm

#### INSTRUCTIONS:

Answer ALL Questions

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ISO 9001:2008 CERTIFIED (C)



### SECTION A: 30 MARKS

		(4 marks)
1	. Define the following terminologies	(4 marks)
	a) Ethology	
	b) Homeostasis	
	c) Ecophysiology	
	d) Animal welfare	lands
2	Describe four ways in which heat stress is physiologically combated in the	(6 marks)
	3. Briefly discuss the pathophysiology of hypothermia in animals	(6 marks)
to the least telegraph controls important aspects of parenting and attachment behaviors,		
4	list the other functions of hypothalamus in mammals	(4 marks)
	<ol> <li>Discuss the general principles of developing and evaluating animal welfar</li> </ol>	e policies
	5. Discuss the general principal	(6 marks)
	<ol> <li>Explain what is social defeat in ethology</li> </ol>	(4 marks)
	SECTION B: 40 MARKS  7. Discuss the five animal freedoms also known as Brambell's five freedom by the World Organisation for Animal Health	(10 marks)
r e	8.º The environment can have major influences on animal physiology. Discu alterations in thermoregulation in the animal body due to outside stresses	(10 marks)
	9. Discuss the physiological and behavioural changes arising from increase	in Fos-
	labeled cells in the anterior hypothalamic nucleus in animals	(10 marks)
	<ol> <li>Acclimatization is the process in which an individual animal adjusts to a gradual</li> </ol>	
`	change in its environment. Discuss the various ways in which animals acclimatize	
		(10marks)