THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

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MAIN EXAMINATION

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JANUARY – APRIL 2019 TRIMESTER

FACULTY OF SCIENCE

DEPARTMENT OF BIOLOGY

REGULAR PROGRAMME

BIO 311: VIROLOGY

Date: April 2019 Duration: 2 Hours
INSTRUCTIONS: Answer Question ONE and any other TWO Questions

Q1.	a) Outline five characteristics of viruses	(5marks)
	b) Differentiate enveloped viruses from naked ones	(4 marks)
	c) Explain the following terms: i) Genome ii) Virions iii) Prions iv) Vectors	(1 mark) (1 mark) (1 mark) (1 mark)
	d) Describe the structure of bacteriophage	(5 marks)
	e) Outline signs of influenza	(4 marks)
	f) Describe prevention of herpes disease	(3 marks)
	g) Outline the main symptoms of acute HIV infection	(5 marks)
Q2.	Discuss classification of viruses	(20 marks)
Q3.	Discuss viral replication cycle	(20 marks)
Q4.	Citing examples, discuss genetic constitution of viruses	(20 marks)

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Q5.	Discuss mechanisms of resistance to viruses in humans and plants (20 marks)	
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