

# JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY SCHOOL OF HEALTH SCIENCES

### UNIVERSITY EXAMINATION FOR DEGREE IN COMMUNITY HEALTH AND DEVELOPMENT

## 2<sup>ND</sup> YEAR 1<sup>ST</sup> SEMESTER 2013/2014 ACADEMIC YEAR

#### **CENTER: MAIN CAMPUS**

<b>COURSE CODE:</b>	HCD 3212
<b>COURSE TITLE:</b>	INTRODUCTORY VIROLOGY
<b>EXAM VENUE:</b>	STREAM: BSc. In Community Health & Devt.
DATE: 04/12/2013	EXAM SESSION: 9.00-11.00 AM

-----:

**Instructions:** 

- 1. Answer ALL questions in Section A and ANY other 2 questions in Section B.
- 2. Candidates are advised not to write on the question paper.
- **3.** Candidates must hand in their answer booklets to the invigilator while in the examination room.

#### Section A: Answer ALL Questions (30 Marks)

1.	Briefly describe the basic structure of a virus.	(4 marks)
2.	What three factors may influence the host range of a given virus?	(3 marks)
3.	Name the five basic structural forms of viruses in nature, citing an example.	(5 marks)
4.	Differentiate between viroids and prions, each with an example.	(3 marks)
5.	Name and differentiate the two types of virus replication cycles	(4 marks)
6.	State any five possible outcomes of viral gene mutations	(5 marks)
7.	Name any three prominent members of the herpes viruses and the associated	pathologies
		(6 marks)

#### Section B: Answer Any TWO Questions (40 Marks)

1.	Viruses are classified according to the nature of their genome and their structure	re. Select any
	Five groups and describe them using these features (you could use a table)	(20 marks)

2. Select any viral disease and discuss its development and community health relevance

(20 marks)

3.	Discuss the Principal Events	Involved In Viral Re	eplication, citing re	elevant examples
----	------------------------------	----------------------	-----------------------	------------------

(20 marks)

4. Discuss any four main targets of antiretroviral therapy against HIV, naming respective drugs (20 marks)