



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY
SCHOOL OF HEALTH SCIENCES
UNIVERSITY EXAMINATION FOR BACHELOR OF SCIENCE IN COMMUNITY
HEALTH AND DEVELOPMENT
2nd YEAR 1st SEMESTER 2014/2015 ACADEMIC YEAR
KISUMU CAMPUS

COURSE CODE: HCD 3212

COURSE TITLE: INTRODUCTORY VIROLOGY

DATE: 12/08/2019

EXAM SESSION: 2.00-4.00 PM

TIME: 2.00 HOURS

Instructions:

- 1. Answer all the 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

1. Describe the contribution of Adolph Meyer to the early studies of Virology in the 19th Century. (3 marks)
2. Contrast between virions and virioids. (3 marks)
3. Clearly outline factors that limit viral infections in a typical host cell. (3 marks)
4. Mention the major types of capsid morphology in viruses. (3 marks)
5. Briefly outline the objectives of the International Committee on Taxonomy of Viruses regarding the classification of viruses. (3 marks)
6. Outline the basic principle of the Baltimore Classification system in Virology. (3 marks)
7. Describe one common theory that explains the origin of Viruses on the planet. (3 marks)
8. Write short notes on the viral cytopathic effects. (3 marks)
9. Outline the general features of viral replication strategies. (3 marks)
10. List examples of viral receptors found in mammalian cells. (3 marks)

SECTION B

11. Discuss the advantages and disadvantages of live-attenuated vaccines. (20 marks)
12. Discuss the types of virus protein identification methods in collected samples obtained from infected patients. (20 marks)
13. Discuss the antiretroviral treatment modalities. (20 marks)