

# **EMBU UNIVERSITY COLLEGE**

(A Constituent College of the University of Nairobi)

## **2015/2016 ACADEMIC YEAR**

#### **SECOND SEMESTER EXAMINATION**

# THIRD YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE (MICROBIOLOGY AND BIOTECHNOLOGY)

### SZL 315: VIROLOGY

**DATE: APRIL 7, 2016** 

TIME: 08:30-10:30AM

### INSTRUCTIONS: Answer any ten (10) questions (7 marks each)

- 1. Describe briefly the use of highly active antiretroviral therapy in management of HIV infection.
- 2. Describe HIV-1 replication.
- 3. Outline the causes of genetic variation in viruses.
- 4. Discuss briefly the diagnosis, clinical characteristics and treatment of rotaviruses.
- 5. Outline considerations made by International Committee on Taxonomy of viruses in making taxonomic assignments.
- 6. Discuss the importance of studying viruses.
- 7. Describe the purification of viruses using centrifugation.
- 8. Discuss theta  $\theta$  and  $\sigma$  replication in viruses.
- 9. Describe the events in the induction of  $\lambda$  phage.
- 10. Discuss briefly productive infections.
- 11. Describe the "single-burst experiment" virus infectivity assay that provides data for a one-step growth curve.
- 12. Discuss the effect of temperature on viral infectivity.

--END--

