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EXAMINATION FOR THE AWARD OF DEGREE OF BACHELOR OF BIOMEDICAL TECHNOLOGY

BMET 232: MEDICAL VIROLOGY

STREAMS: BMET TIME: 2 HOURS

DAY/DATE: MONDAY 15/4/2019 2.30 P.M. – 4.30 P.M.

INSTRUCTIONS: Answer question ONE and any other TWO questions

QUESITON 1 (COMPULSORY) – 30 MARKS

- (a) Draw a well labeled diagram of a virion. [5 marks]
- (B) Draw five examples of DNA viruses [5 marks]
- (c) Outline five properties of viruses. [5 marks]
- (d) (i) Describe three requirements that must be satisfied to ensure successful viral infection in an individual host. [3]

marks]

- (ii) Differentiate between virulent and attenuated virus. [2 marks]
- (e) Using specific examples, explain how viruses can spread through urogenital tract.

[5

marks]

- (f) (i) List four viruses that are transmitted via respiratory route. [2 marks]
 - (ii) List six viruses that are members of herpesvividae. [3 marks]

QUESTION 2 (20 MARKS)

(a) Discuss viral replication cycle in detail. [10 marks]

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(b)	In detail, describe 3 basic categories of methods used in the initial diagnosis of virus	
	infection.	[10 marks]
QUE	STION 3 (20 MARKS)	
(a)	Describe mechanisms in genetic variation of RNA viruses.	[10 marks]
(b)	Describe Baltimore Classification of viruses.	[10 marks]
QUE	STION 4 (20 MARKS)	
(a)	Giving appropriate examples draw five basic types of viral symmetry.	[10 marks]
(b)	Highlight the properties of naked and enveloped viruses.	[10 marks]