

TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF MEDICAL SCIENCES

UNIVERSITY EXAMINATION FOR:

BACHELOR OF SCIENCE MEDICAL LABORATORY SCIENCES

AML 4301: MEDICAL VIROLOGY II

SPECIAL/ SUPPLIMENTARY EXAMINATIONS

SERIES: SEPTEMBER 2018

TIME: 2HOURS

DATE: Pick Date Sep 2018

Instructions to Candidates

You should have the following for this examination -Answer Booklet, examination pass and student ID
This paper consists of **TWO**Section(s). AttemptALL questions.

Circle the correct answer in section A.

Section A

- 1. Which of the following is a naked double stranded DNA virus
- a) Parvo virus
- b) Adeno virus
- c) Reo virus
- d) Retro virus
- e) None of the above
- 2. Which of the following viruses replicates in host nucleus but it does not integrate as a provirus
- a) Filo virus
- b) Papillomavirus
- c) Flavi virus
- d) Toga virus
- e) All of the above
- 3. Which of the following viruses Infects epithelial cells lining respiratory tract, GI tract, and conjunctiva
- a) Hepatitis E
- b) Pox virus

- c) Reo virus
- d) Toga virus
- e) Adenovirus
- 4. Which of the following virus causes rhinitis in immune-suppressed people
- a) Cytomegalovirus
- b) Neonatal herpes infection
- c) Small pox
- d) Influenza
- e) Parainfluenza
- 5. Hepatosplenomegaly, retinitis, rash, and central nervous system involvement; these are symptoms for which of the following virus?
- a) Varicella-zosta
- b) Herpes simplex
- c) Human herpes 5
- d) Cytomegalo virus
- e) Human herpes 7
- 6. The following are group 2 virues EXCEPT?
- a) Paramyxoviruses
- b) Picornaviruses
- c) Adenoviruses
- d) Unconventional slow viruses
- e) Rabies
- 7. Which of the following belong to the group 4 viruses
- a) Filoviruses
- b) HIV
- c) Orthomyxo viruses
- d) Togaviruses
- e) None of the above
- 8. Birds are the primary hosts for which of the following emerging virus
- a) Chikungunya
- b) West Nile
- c) Dengue
- d) Onyongnyong
- e) Yellow fever
- 9. The following are symptoms of prion infection EXCEPT?
- a) Lack of coordination
- b) Staggering
- c) Slurred speech
- d) Dramatic mood swings
- e) None of the above
- 10. Which of the following is not true about Bunya virus
- a) Its enveloped

- b) It is segmented
- c) It is naked
- d) It is RNA virus
- e) It is single stranded
- 11. Which of the following viruses is single stranded and encodes reverse transcriptase
- a) Reo virus
- b) Retrovirus
- c) Parvo virus
- d) Arenavirus
- e) Papovavirus
- 12. The following are enteric viruses EXCEPT?
- a) Polio virus
- b) Echovirus
- c) Rhino virus
- d) Coxsackie virus
- e) Herpangina
- 13. Hydrophobia is a symptom of which of the following virus?
- a) Dengue
- b) Measles
- c) Herpes
- d) Rabies
- e) Hepatitis A
- 14. Which of the following viruses hooks to Acetylcholine receptors at neuromuscular junction
- a) Rabies
- b) Junin
- c) Marburg
- d) Rhinovirus
- e) All of the above
- 15. Which of the following oncovirus particles are non infectious
- a) A-Type
- b) B-Type
- c) C-Type
- d) D-Type
- e) None of the above
- 16. Which of the following viruses can be detected through hemadsorption
- a) Influenza A
- b) Influenza B
- c) Influenza C
- d) Paramyxo virus
- e) All of the above
- 17. Koplik spots are common in which of the following?
- a) Measles
- b) Croup

- c) Mumps
- d) Influenza
- e) Parainfluenza
- 18. The following belong to the Flavivirus family Except?
- a) Zika
- b) Yellow fever
- c) Dengue
- d) German measles
- e) Hepatitis C
- 19. Transformation of cancerous cells involves the following EXCEPT
- a) Loss of growth control
- b) Anchorage-independent growth
- c) Ability to invade extracellular matrix
- d) Differentiation
- e) Immortalization
- 20. Papilloma viruses are associated with the following EXCEPT?
- a) Anal carcinomas
- b) Squamous cell carcinomas of larynx
- c) Squamous cell carcinomas of esophagus
- d) Breast Cancer
- e) Squamous cell carcinomas of lung
- 21. Which of the following is a human Polyoma virus
- a) SV40
- b) Bk and JC
- c) Junnin
- d) West Nile
- e) Rabis
- 22. Which of the following viruses is associated with Burkitts lymphoma?
- a) Epstein Barr virus
- b) Human herpes 8 virus
- c) Adeno virus
- d) Polyoma Virus
- e) Herpes simplex virus
- 23. Cytomegalovirus is associated with the following EXCEPT?
- a) Prostate
- b) Breast
- c) Kaposi's sarcoma
- d) Hodgkin's lymphoma
- e) Castle's disease
- 24. Which of the following oncoviruses often form syncytia of giant multinucleate cells?
- a) Lentiviruses
- b) Oncovirinae
- c) Spumavirinae

- d) All of the above
- e) None of the above
- 25. Which of the following viruses cuase keritinization of the skin
- a) Bk
- b) JC
- c) SV40
- d) Papilloma
- e) Adenovirus
- 26. Which of the following viruses is the most common cause of blindness in immunosupressed patients
- a) Human herpes8
- b) Human herpes 7
- c) Cytomegalovirus
- d) Varicelazoster
- e) All of the above
- 27. Which of the following viruses has both DNA and RNA in its genome
- a) Rhabdovirus
- b) Filovirus
- c) Hepadnavirus
- d) Herpesvirus
- e) Arenavirus
- 28. Which of the following filovirus is known to cause a major epidemic in Africa
- a) Maburg
- b) Ebola
- c) Dengue
- d) Zika
- e) Chikungunya
- 29. Which of the following viruses has a dane particle
- a) Hepatitis A
- b) Hepatitis B
- c) Hepatitis C
- d) Hepatitis E
- e) All of the above
- 30. Which of the following virus is common in causing upper respiratory infections in infants
- a) Influenza virus
- b) Parainfluenza virus
- c) Respiratory synctia virus
- d) Mumps virus
- e) Rhinovirus

Section B

- 31. Describe hurdles of interspecies transfer that has contributed to emerging and re-emerging of viral infection (10Mks)
- b. Describe Polyoma virus (10 Mks)
- 2. Describe the following viruses' families outlining two of the diseases caused by these families (10mks)
 - i. Orthomyxo Virus
 - ii. Paramyxo virus
- b. Describe hepadnaviridae (10mks)