



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

END OF SEMESTER EXAMINATION

SERIES:DECEMBER2016

TIME:2HOURS

DATE:Pick DateSelect MonthPick Year

Instructions to Candidates

You should have the following for this examination

-Answer Booklet, examination pass and student ID

This paper consists of TWOSection(s). AttemptALL questions.

Circle the correct answer in section A.

Section A

1. Which of the following viruses belong to the beta- herpes group?
 - a) Cytomegalovirus
 - b) Human herpes viruses 6
 - c) Human herpes 7
 - d) All of the above
 - e) None of the above
2. 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
3. Which of the following viral infection is very common in children
 - a) Smallpox
 - b) Varicella-zoster

- c) Cytomegalovirus
 - d) Ebola
 - e) Dengue
- a) The following viruses have been as laboratory acquired EXCEPT?
- b) Coxsackie
 - c) Mumps
 - d) Influenza
 - e) HIV
 - f) Dengue
4. Which of the following belong to the group 4 viruses
- a) Filoviruses
 - b) HIV
 - c) Orthomyxo viruses
 - d) Togaviruses
 - e) None of the above
5. The following are emerging viral infections EXCEPT
- a) Lassa virus
 - b) HIV
 - c) Ebola
 - d) Hanta
 - e) Yellow fever
6. Birds are the primary hosts for which of the following emerging virus
- a) Chikungunya
 - b) West Nile
 - c) Dengue
 - d) Onyongnyong
 - e) Yellow fever
7. The following are enveloped, RNA viruses Except?
- a) Bunya virus
 - b) Arena virus
 - c) Rhabdovirus
 - d) Filovirus
 - e) Calci virus
8. The following are non segmented RNA viruses EXCEPT?
- a) Arena virus
 - b) Filovirus
 - c) Corona virus
 - d) Rhabdo virus
 - e) Flavivirus
9. Which of the following viruses is single stranded and encodes reverse transcriptase
- a) Reo virus
 - b) Retrovirus

- c) Parvo virus
 - d) Arenavirus
 - e) Papovavirus
10. Which of the following is a double stranded virus
- a) Calici Virus
 - b) Hepatitis C Virus
 - c) Rota Virus
 - d) Adeno Virus
 - e) Arena Virus
11. Which of the following viruses undergoes reverse transcription
- a) Togavirus
 - b) Hepadnavirus
 - c) Rhabdovirus
 - d) Parvovirus
 - e) Reovirus
12. Which of the following is an RNA tumor virus
- a) Hepadnaviridae
 - b) Adenoviridae
 - c) Retroviridae
 - d) Paramyxoviridae
 - e) Calciviridae
13. Which of the following occurs in non-permissive cells
- a) Only part of the viral genome is expressed
 - b) All parts of the viral genome are expressed
 - c) Viral replication
 - d) Cell lysis
 - e) Cell death
14. What is the treatment given to zika infected patient
- a) Vaccine
 - b) Ribavirin
 - c) Support care
 - d) Amantidine
 - e) Acyclovir
15. Simian virus 40 belongs to which of the following family?
- a) Herpes Viridae
 - b) Orthomyxo virus
 - c) Polyoma viruses
 - d) Rhabdo viridae
 - e) Reo viridae
16. Which of the following viruses was originally isolated from human tonsils
- a) Adenoviruses
 - b) Rhino viruses
 - c) Influenza viruses

- d) Measles viruses
 - e) Parainfluenza viruses
17. Which of the following viruses have been found to be associated with oral lesions and neoplasms in HIV-infected patients?
- a) Varicella zoster
 - b) Human herpes 7
 - c) Human herpes 8
 - d) Herpes simplex
 - e) None of the above
18. Which of the following virus undergoes reverse transcription?
- a) Hepadnaviridae
 - b) Adenoviridae
 - c) Poxviridae
 - d) Parvoviridae
 - e) Papovaviridae
19. Which of the following is a single stranded DNA virus
- a) Parvovirus
 - b) Pox virus
 - c) Papilloma Virus
 - d) Adeno virus
 - e) Hepadna Virus
20. The following viruses are enveloped with a double stranded genome EXCEPT?
- a) Pox virus
 - b) Hepadna Virus
 - c) Papova virus
 - d) Herpes virus
 - e) All of the above
21. Which of the following viruses have a circular DNA, partially double-stranded, partially single-stranded
- a) Papilloma
 - b) Toga
 - c) Papova
 - d) Parvo
 - e) Hepadna
22. The following are enteric viruses EXCEPT?
- a) Polio virus
 - b) Echovirus
 - c) Rhino virus
 - d) Coxsackie virus
 - e) Herpangina
23. Hydrophobia is a symptom of which of the following virus?
- a) Dengue
 - b) Measles
 - c) Herpes

- d) Rabies
 - e) Hepatitis A
- a) Which of the following viruses hooks to Acetylcholine receptors at neuromuscular junction
- b) Rabies
 - c) Junin
 - d) Marburg
 - e) Rhinovirus
 - f) All of the above
24. Which of the following genes encode for reverse transcriptase in retroviruses
- a) Gag
 - b) U3
 - c) U5
 - d) Pol
 - e) Env
25. Which of the following virus is found in humans, aquatic birds, swine, horses, seals, whales
- a) Retrovirus
 - b) Influenza virus
 - c) Rotavirus
 - d) Measles
 - e) HIV
 - f) All of the above
26. Croup and Mumps are example of which of the following viruses
- a) Influenza
 - b) Parainfluenza
 - c) Rhabdo virus
 - d) Rotavirus
 - e) Arenavirus
27. Machupo virus belongs to which family?
- a) Filo virus
 - b) Bunya virus
 - c) Arena virus
 - d) Reo virus
 - e) Flavi virus
28. Which of the following viruses is also known as pneumovirus
- a) Influenza
 - b) Rhino virus
 - c) Respiratory Syncytial virus
 - d) HIV
 - e) Ebola
29. Which of the following antiviral agent binds and inhibits DNA polymerase
- a) Amantidine
 - b) Rimantidine
 - c) Acyclovir

- d) Era A
 - e) All of the above
30. Which of the following infections are very common in cold seasons
- a) Rhinitis
 - b) Chikungunya
 - c) Mobilivirus
 - d) Nawalk virus
 - e) All of the above

Section B

31. (a). Describe the following viruses 10mks

- i. Cytomegalo viruses
- ii. Rabies virus

(b). Describe the West Nile virus (10mks)

32 (a). Describe the following (20mks)

- i. Rhinoviruses
- ii. Group 3 viruses
- iii. Spumavirinae