## Online Examinations (Even Sem/Part-I/Part-II Examinations 2020 - 2021

Course Name - - Medical Virology & Parasitology Course Code - MMB205

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\_ .. . \_ \_

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- M.SC.(MSJ)
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- M.SC.CS)
- M.SC.(ANCS)
- M.SC.(MM)
- B.A.(Eng)

Answer all the questions. Each question carry one mark.

9. 1. Viruses range in size from

- 25-300 nm
- \_\_\_\_\_ 1-20 nm
- 5-10 nm
- 20-30nm

10. 2. Identify the influenza virus serotype that causes most of the epidemics

Mark only one oval.

| $\subset$ | 🔵 Туре В      |
|-----------|---------------|
| $\subset$ | 🔵 Туре А      |
| $\subset$ | 🔵 Туре С      |
| $\subset$ | None of these |

11. 3. Identify the source of H5N1 infection in humans

Mark only one oval.

| $\bigcirc$ | Birds         |
|------------|---------------|
| $\bigcirc$ | Pigs          |
| $\bigcirc$ | Cows          |
| $\bigcirc$ | None of these |

12. 4. Which of the following microorganism is a co/secondary cause of pneumonia caused by the influenza virus?

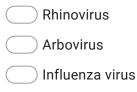
Mark only one oval.

Rhinovirus

- Staphylococcus aureus
- 📃 Rubella virus
- Chlamydia pneumoniae

13. 5. The viruses spread by arthropods are known as \_\_\_\_\_

Mark only one oval.



) HIV

14. 6. Which of the following is not an RNA virus?

Mark only one oval.

- Retrovirus
  Enterovirus
  Rhabadovirus
  Adenovirus
- 15. 7. Bacteriophage are readily counted by the process of

Mark only one oval.

Immunoassays

ELISA

- Plaque assays
- Electron Microscopy

16. 8. David Baltimore is a molecular biologist. What did he discover?

Mark only one oval.

The structure of DNA

- X-ray crystallographic techniques
- The enzyme reverse transcriptase
- \_\_\_\_ The anti HIV drug zidovudine
- 17. 9. A virus is made up of \_\_\_\_\_

Mark only one oval.

- Protein coat and nucleic acid
- Protein coat and mitochondria
- Nucleic acid and cell membrane
- Nucleic acid, cell wall and cell membrane
- 18. 10. Scrapie is a chronic disease of which of the following animals?

- sheep
- ( mink
- \_\_\_\_ cow

19. 11. Cancer of the lip of mouth have been associated with \_\_\_\_\_

Mark only one oval.



20. 12. Identify the most commonly used diagnostic technique in the virus laboratory

Mark only one oval.

- Virus isolation in cell culture
- Deep sequencing (NGS)
- Reverse transcriptase (RT) PCR
- Immuno-serology
- 21. 13. How is next generation sequencing (NGS) most often used?

- To identify a newly discovered virus
- To search for drug resistant mutants
- To identify quasi species viruses
- Cannot be used

## 22. 14. What is the most common cause of aseptic meningitis of viral etiology?

Mark only one oval.

Herpesvirus

- Enterovirus
- Retrovirus
- Arbovirus
- 23. 15. This virus contains both DNA and RNA

Mark only one oval.

- Polio virus
- Herpes virus
- Cyanophage
- Leukovirus
- 24. 16. Interferons curb infection of

- Fungi Bacteria
- Cancer
- None of these

## 25. 17. Causative of Chickenpox is

Mark only one oval.

Bacteriophage T-2

- 📃 Varicella virus
- SV-40 virus
- Adenovirus
- 26. 18. This is a viral disease

Mark only one oval.

- Rickets
- Measles
- Beri-beri
- Syphilis Syphilis
- 27. 19. Which of the following is a segmented ds-RNA virus?

- Togavirus
- Arenavirus
- Rotavirus
- Parvovirus

28. 20.Which of the following statements is true about Reverse transcriptase polymerase chain reaction (RT-PCR)?

Mark only one oval.

- Very useful for mRNA quantitation
- Highly specific assay than serology for certain virus detection
- Low cost and easily available
- Helps in the identification of virus strains
- 29. 21. Influenza virus contain hemagglutinin and neuraminidase. What does these represent?

## Mark only one oval.

- Proteins that surround the nucleus acid in influenza
- exotoxins produced by influenza
- glycoprotein receptors on the target cells
- glycoproteins present on the virus contributing to its virulence
- 30. 22. A virus is made up of \_\_\_\_

- Protein coat and nucleic acid
- Protein coat and mitochondria
- Nucleic acid and cell membrane
- Nucleic acid, cell wall and cell membrane

#### 31. 23. Which of the following statements are true about a virion?

Mark only one oval.

\_\_\_\_ Lytic phage

Lysogenic phage

The viral capsid

An infectious and fully formed viral particle

## 32. 24. Which of the following is the largest virus?

Mark only one oval.

- Megavirus chilensis
- 🔵 Arbo virus
- 🔵 Herpes virus
- 🔵 Mumps virus
- 33. 25. Which of the following statements are true about the peplomeres?

- 📃 It is an individual unit of capsids
- It is a spike-like projection on the enveloped viruses
- It is a projection on the viral membrane
- It is a spike-like projection on the capsids

34. 26. The viral envelope is made up of \_\_\_\_

Mark only one oval.

Proteins

- Glycoproteins
- Lipids and Proteins
- All of these
- 35. 27. A fully formed infectious viral particle is called \_\_\_\_\_

Mark only one oval.

- Virion
- Virioid
- Capsid
- Virusoid
- 36. 28. The genetic constituent of viruses is \_\_\_\_\_

Mark only one oval.

DNA

- ss RNA
- DNA or RNA

37. 29. The shape of the TMV is \_\_\_\_\_

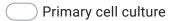
Mark only one oval.

Rod-shaped

- Oval shaped
- Cuboidal shaped
- Spherical shaped
- 38. 30. Bacteriophages that induce bacterial cell lysis are called\_\_\_\_\_

Mark only one oval.

- Viroids
- Lysogenic phages
- Virulent phages
- Temperate phages
- 39. 31. Name the type of culture which is prepared by inoculating directly from the tissue of an organism to culture media?



- Secondary cell culture
- Cell lines
- Transformed cell culture

#### 40. 32. Name the cell line of the human embryonic lung

Mark only one oval.



41. 33. Size of viruses range between

Mark only one oval.

- \_\_\_\_\_ 100 mm to 150 mm
- 🔵 30 nm to 300 nm
- \_\_\_\_\_ 300 nm to 3000 nm
- 3 nm to 30 nm
- 42. 34. In viruses, nucleic acid can be present in the form of?

Mark only one oval.

DNA virus

RNA virus

- Both 1 and 2
- None of these

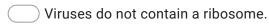
43. 35. Name the virus that is transmitted through the biting of infected animals, birds, and insects to a human?

Mark only one oval.

- Rabies Virus
- Ebola Virus
- 📃 Flavivirus
- All of these
- 44. 36. In the host cell, replication of RNA virus took place in...

Mark only one oval.

- nucleus
- \_\_\_\_ cytoplasm
- 🔵 mitochondria
- centriole
- 45. 37. Which of the following statement is correct about viruses?



- Viruses can make protein.
- Viruses can be categorised by their shapes.
- Both 1 and 3 are correct

46. 38. A virus can spread through

Mark only one oval.

- contaminated food/water
- coughing
- touching
- All of these
- 47. 39. Which of the following disinfectant is effective against viruses?

Mark only one oval.

- Hydrogen peroxide
  Hypochlorite
  Formaldehyde
- All of these
- 48. 40. Viruses largely lack metabolic machinery of their own to generate energy or to synthesize

- \_\_\_\_ protein
- carbohydrate
- 🔵 alcohol
- All of these

49. 41. Viruses require \_\_\_\_\_ for growth.

Mark only one oval.

\_\_\_\_ plants

- ) animals
- living cells
- 🔵 bacteria
- 50. 42. When a virus enters a cell but does not replicate immediately, the situation is called

Mark only one oval.

- \_\_\_\_\_ fermentation
- lysogeny
- \_\_\_\_\_ symbiosis
- \_\_\_\_\_ synergism
- 51. 43. Usually viruses are separated into several large groups based primarily on

Mark only one oval.

nucleic acid characteristics

capsid symmetry

- \_\_\_\_ nature of the host
- \_\_\_\_ diameter of the viroin or nucleocapsid

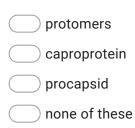
# 52. 44. The viral DNA is removed from the host's chromosomes and the lytic cycle occurs. The process is called

Mark only one oval.

spontaneous induction

inductive infection

- resultant induction
- spontaneous infection
- 53. 45. The capsomeres consist of a number of proteins subunits or molecules called *Mark only one oval.*



54. 46. Trophozoites, Schizonts and gametocytes of all the malarial parasites are seen in the peripheral blood smear except

- P. malariae
- P. falciparum
- P. ovale
- 🛛 P. vivax

#### 55. 47. Filarial larva can be collected from man's

Mark only one oval.

- Peripheral blood at midnight
- smears of spleen
- smears of intestinal contents
- biopsy of liver
- 56. 48. This does not accurately describe Lymphatic filariasis

## Mark only one oval.

- mainly affects the lower limb
- intermediate vector is the mollusc
- Chyluria is the most common manifestation
- 📄 is caused by the parasitic worms Wuchereria bancrofti and Brugia malayi

#### 57. 49. Which is a helminth disease

Mark only one oval.

O Polio

- 🔵 Filariasis
- 🛛 🗍 Filaria
- Diphtheria

58. 50. All of the following are the characteristics of systemic mycoses/deep mycosis, EXCEPT?

Mark only one oval.

- Most of the dimorphic fungi cause the infection
- Pathogenesis mostly occurs due to the inhalation of spores
- Lungs are the site of infections for all of the fungi
- Infection can develop in immunocompromised individuals
- 59. 51. Coccidioidomycosis has the lesions the same as that of the lesion caused by which of the following infections?

#### Mark only one oval.

| Sporotrichosis    |
|-------------------|
| Brucellosis       |
| Syphilis Syphilis |
| Candidiasis       |

60. 52. Rubella virus was invented by

Mark only one oval.

Sir Maurice Hilleman

Option 2

- Sir Samuel Morse
- Sir Edwin Budding

61. 53. The human virus that has been associated with Burkett's lymphoma ( a malignant tumor of the jaw) is:

Mark only one oval.

- Cytomegalovirus
- Human papilloma virus (HPV)
- Epstein- Barr virus
- Retrovirus
- 62. 54. Prophase in viral replication cycle refers to

## Mark only one oval.

- viral genome outside the host cell
- viral genome integratig into the bacterial genome
- viral genome in the culture medium
- newly synthesized viral genome within host cell
- 63. 55. This enzyme is present within the bacteriophage

- \_\_\_\_\_ dehydrogenase
- urease
- lysozyme
- \_\_\_\_ protease

### 64. 56. Which factor may help determine the antigenicity of a virus?

Mark only one oval.

the size

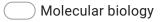
- \_\_\_\_\_ the capsomeres
- \_\_\_\_\_ the capsid
- \_\_\_\_\_ the internal proteins
- 65. 57. Recombination of different types of cells to form more defined tissue or organ is known as \_\_\_\_\_

Mark only one oval.

| $\bigcirc$ | Organotypic culture |
|------------|---------------------|
| $\bigcirc$ | Cell line           |
| $\bigcirc$ | Primary culture     |
| $\bigcirc$ | Secondary culture   |

66. 58. This technique is commonly used for most viral vaccines

Mark only one oval.



Animal tissues in vitro

- Virus like particles (VLPs)
- traditional cell culture

#### 67. 59. Hydrophobia or rabies is a disease caused by

Mark only one oval.

Bacteria
 Viruses
 Helminths
 Parasites

68. 60. Which of the following statements are true about the viruses?

Mark only one oval.

- Free-living
- Obligate parasites
- Both 1 and 2
- none of these

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