



RAN - 2103000203026003



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S. Y. B. Sc. (Sem. - III) Examination

March - 2023

Microbiology : Paper - MB-303

Virology

[Total Marks: 50

સૂચના : / Instructions

(1)

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the details of signs on your answer book

Name of the Examination:

S. Y. B. Sc. (Sem. - III)

Name of the Subject :

Microbiology : Paper - MB-303 Virology

Subject Code No.: **2103000203026003**

Seat No.:

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Student's Signature

- (2) This exam contains 50 MCQs, each worth 1 mark.
(3) Choose only ONE most appropriate answer per question.

***O.M.R. Sheet ભરવા અંગેની અગત્યની સૂચનાઓ આપેલ
O.M.R. Sheetની પાછળ છાપેલ છે.***

***Important instructions to fillup O.M.R. Sheet
are given on back side of the provided O.M.R. Sheet.***

- Q. 9.** The enzyme responsible for the escape of phage from bacterial cell is _____.
- | | |
|-------------|------------------|
| a. Lysozyme | b. Neuraminidase |
| c. Nuclease | d. Cellulase |
- Q. 10.** The phage T4 are called _____.
- | | |
|--------------|---------------|
| a. Temperate | b. Virulent |
| c. Lysogenic | d. Phytophage |
- Q. 11.** The viral DNA within the bacterial chromosome is called _____.
- | | |
|--------------------|--------------|
| a. Lysogenic cells | b. Lysogen |
| c. Prophage | d. Phagosome |
- Q. 12.** Which of the following represents the combination of bacterium and a temperate phage?
- | | |
|-------------|------------|
| a. Prophage | b. Lysogen |
| c. Plaques | d. Pyogen |
- Q. 13.** _____ is present on the capsid of rhinovirus that binds to the specific membrane protein.
- | | |
|------------------|-------------------|
| a. Neuraminidase | b. Haemagglutinin |
| c. Spike | d. Canyons |
- Q. 14.** Lysogeny was first described by _____.
- | | |
|--------------------|------------------|
| a. David Baltimore | b. Jacques Monod |
| c. Francois Jacob | d. Andre Lwoff |
- Q. 15.** Animal DNA virus replicates their DNA in the host cell's _____.
- | | |
|-----------------|--------------|
| a. Cytoplasm | b. Periplasm |
| c. Mitochondria | d. Nucleus |
- Q. 16.** Once the animal virus enters the host cell the viral genome is separated from its protein by a process called _____.
- | | |
|---------------|--------------|
| a. Synthesis | b. Uncoating |
| c. Separation | d. Assembly |
- Q. 17.** The ability to become latent is exhibited by _____.
- | | |
|-----------------|----------------|
| a. Poxvirus | b. Herpesvirus |
| c. Hepadnavirus | d. Adenovirus |

- Q. 18.** In a (-) sense RNA animal viruses, a packaged _____ uses the (-) sense RNA to make (+) sense RNA.
- a. Reverse enzyme
 - b. Transcriptase
 - c. DNA polymerase
 - d. Amylase
- Q. 19.** The entry of virions (or their genome) into host cells is called as _____.
- a. Penetration
 - b. Adsorption
 - c. Entrapment
 - d. Linking
- Q. 20.** The reactivation of herpesvirus results in
- a. Nerve damage
 - b. Cold and Fever
 - c. Immunosuppression
 - d. Shingles
- Q. 21.** The synthesis of capsid in herpesvirus takes place in _____ hour.
- a. 16 to 24
 - b. 12 to 16
 - c. 4 to 8
 - d. 8 to 16
- Q. 22.** The agent that induces teratogenesis is known as _____.
- a. Hepatogen
 - b. Teratogen
 - c. Teratogen
 - d. Transmission
- Q. 23.** Which of the following virus is known to induce teratogenesis?
- a. Mumps
 - b. Rabies
 - c. Cytomegalovirus
 - d. Polio virus
- Q. 24.** Which viruses use a helper virus to supply the necessary components to produce more virions?
- a. Dependoviruses
 - b. Helpviruses
 - c. Deepviruses
 - d. Paraviruses
- Q. 25.** _____ are known as virusoids.
- a. Viroids
 - b. Satellite viruses
 - c. Satellite nucleic acid
 - d. Prions
- Q. 26.** Genome of satellite is _____.
- a. dsRNA
 - b. ssRNA
 - c. ssDNA
 - d. ds DNA

- Q. 35.** Which types of viruses will be passed on from generation to generation?
- Viruses that insert themselves into egg producing cells
 - Viruses that insert themselves into kidney cells
 - Viruses that insert themselves into brain cells
 - Viruses that insert themselves into Red blood cells
- Q. 36.** From the following which one cannot be infected by a virus?
- Virus
 - Bacteria
 - Plant
 - Protozoa
- Q. 37.** In which part of the warm-blooded animals a Rabies virus can attack?
- Digestive system
 - Central nervous system
 - Kidney
 - Heart
- Q. 38.** Papillomaviruses, which cause warts, infect which cells?
- Kidney cells
 - Skin cells
 - Brain cells
 - Lungs cells
- Q. 39.** A complete virus particle is called as _____.
- Compvirus
 - Virion
 - Viruson
 - Pirvir
- Q. 40.** The discovery that a given virus can cause varying symptoms in several different body systems made the _____ concept untenable. Fill the blank space with correct option.
- “One virus, one disease”
 - “Giant virus, one disease”
 - “One virus, many disease”
 - “Virus, corona disease”
- Q. 41.** Tobacco mosaic virus consists of how many nucleotides?
- 6400
 - 64000
 - 64
 - 640
- Q. 42.** Specificity of virus is affected by which factor?
- Host enzymes and other proteins required for virus replication
 - pH of the environment
 - Host cell length
 - DNA length

SPACE FOR ROUGH WORK