## The West Bengal University of Health Sciences B.Sc. in Medical Microbiology 3rd Semester May - June, 2023 PORE CIT

**Examination** 

Time: 2 hrs.

Tick the correct answer:

Mutation.

dsDNA.

Viroids have:

i) Retrovirus.

i) RNA.

Define prophage.

What is herpes labialis?

i) Immunoassays.

i)

<u>j)</u>

b) c)

d) e)

a)

b)

c)

d)

f)

b)

c)

i) Temperate Phage.

A virus is made up of

The rabies virus contains:

Causative of Chickenpox is:

i) RNA in the fecal sample.

The genetic constituent of viruses is

State the morphology of poliovirus?

State the function of vpu gene of HIV.

Describe the pathogenesis of poxvirus.

State the events involved in viral maturation.

Discuss morphological and antigenic structure of HIV.

Write short notes on prion and oncogenic virus.

2. Answer *any four* of the following questions :

Name two strains of coronavirus.

3. Answer any four of the following questions:

4. Answer any two of the following questions:

iii) IgG antibodies in sera.

i) Protein coat and nucleic acid.

iii) Nucleic acid and cell membrane.

i) ssRNA not enclosed by a protein coat.

iii) dsDNA not enclosed by a protein coat.

i) Bacteriophage T-2. ii) Varicella virus.

Which of the following is not an RNA virus?

Attempt all questions

ii) Replication.

ii) Sexduction.

ii) ssDNA.

ii) Enterovirus.

ii) ELISA.

ii) DNA.

Subject: Virology ESTO 201 Full Marks: 50 10 x 1 Which of the following process is absent in the virus? iii) Production of energy. iv) All. b) What is the phage that attacks a host cell but does not destroy it? iii) Phycophage. iv) Virulent Phage. ii) Protein coat and mitochondria. iv) Nucleic acid, cell wall, and cell membrane. iii) dsRNA. iv) ssRNA. ssRNA enclosed by a protein coat. ii) iv) dsRNA enclosed by a protein coat. iii) SV-40 virus. iv) Adenovirus. iii) Rhabadovirus. iv) Adenovirus. h) The process of readily counting Bacteriophages is called: iii) Plaque assays. iv) Tissue cell culture. Which of the following is not the laboratory diagnosis of poliovirus? ii) IgM antibodies in sera. iv) IgA antibodies in sera. iii) ss DNA. iv) DNA or RNA.  $4 \times 2$ Name two viruses under Paramyxoviridae family. 4 x 4 What is antigenic drift? What is latent period in one step growth curve? 2 + 2State the route of entry of different Herpes virus. 4 4 How do you diagnose the mumps virus in the laboratory? 4 Discuss different types of antigen present in mumps virus. 4 4  $2 \times 8$ State the different stages of lysogenic life cycle. Differentiate between Myoviridae, Siphoviridae and Podoviridae family bacteriophages? 5+3

4+4

4+4