

SEMESTER EXAMINATION-2021
CLASS –MSC. MICROBIOLOGY-I SEM
PAPER CODE: MMB-C102 (VIROLOGY)

Time: 3 hours

Max. Marks: 70

Min. Pass: 40%

Note: Question Paper is divided into two sections: **A and B**. Attempt both the sections as per given instructions.

SECTION-A (SHORT ANSWER TYPE QUESTIONS)

Instructions: Answer any five questions in about 150 words each. Each question carries six marks. (5 X 6 = 30 Marks)

- Question-1: Write short note on Bacteriophage typing?
- Question-2: How lambda phage establishes lysogenic stage in *E.coli*?
- Question-3: What is Hemagglutination inhibition?
- Question-4: Write principle and procedure of fluorescent Microscope.
- Question-5: What is One step Growth curve in Bacteriophage?
- Question-6: M13 phage can be used as a vector for cloning. Justify
- Question-7: Write the procedure of Liquid phase RIA.
- Question-8: Write some applications of Bacteriophage therapy.
- Question-9: Write a note on Cynophages.
- Question-10: Write about sandwiched ELISA.

SECTION-B (LONG ANSWER TYPE QUESTIONS)

Instructions: Answer any FOUR questions in detail. Each question carries 10 marks. (4 X 10 = 40 Marks)

- Question-11: Classification and nomenclature of plant viruses
- Question-12: Describe the procedure for Isolation and cultivation of viruses.
- Question-13: Classify the RNA viruses of animals with examples.
- Question-14: Explain the pathophysiology and infection caused by the SV40.
- Question-15: Describe the genomic organization and general characteristic of Herpes Simplex Virus.
- Question-16: How are indicator plants are used to detect viruses.
- Question-17: Write in detail about the pathogenesis, prevention and treatment of Hepatitis B
- Question-18: Describe the life cycle of TMV?

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