JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

Make-up Examination-Nov-2025

MSc (Micro)-I Semester

COURSE CODE (CREDITS): 20B1WBI831 (2-0-0)

MAX. MARKS: 25

COURSE NAME: VIROLOGY

COURSE INSTRUCTORS: Dr. Tyson

MAX. TIME: 1 Hour 30

Minutes

Note: Note: (a) All questions are compulsory.

(b) The candidate is allowed to make Suitable numeric assumptions wherever required

for solving problems

<u> </u>	Jor solving problems	Marks
Q.No	Question Question Structure	3
Q1	Viruses are often described as acellular entities with a simple structure.	
	Viruses are often described as accordant characteristics and explain the role of each Describe the basic components of a viral particle and explain the role of each	
	in the viral life cycle.	4
Q2	n it detailed explanation of the seven classes of Dalilliote, including	_ -
	the type of nucleic acid genome, the mRNA synthesis strategy, and one	
	the same for each class	<u></u>
Q3	Elaborate on the lytic and lysogenic cycles using lamoua phage as an	4
	1 1 1-toll the boy events integen evelt.	
Q4	- 1 hology how is Western Dioung used to commit the	4
	protein expression in infected cells? What controls are essential to validate	
	1 1 d folgo positives/	
	The the principle in radioimmilinoassay (NIA) and explain the	4
Q5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	1 1 mate introcellular parasites that hinack flost contract incoming	3+3
	1	1
	to replicate their genetic material and produce programmes involves several orchestrated steps, from initial host cell entry to the release	į
	of new infectious particles.	
	1	1
	a) Describe the mechanisms by which different virus families (e.g.,	1
	Describe the international of which the host cell membrane.	
	b) Explain the uncoating process in viral replication, including how the viral	
	b) Explain the uncoating process in vital representations of capsid is disassembled to release the genome into the host cytoplasm or	
ļ	nucleus.	