

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI –600 086
(For candidates admitted during the academic year 2023 – 2024)

M. Sc. DEGREE EXAMINATION, APRIL 2024
BIOTECHNOLOGY
SECOND SEMESTER

COURSE : ELECTIVE
PAPER : VIROLOGY
SUBJECT CODE : 23BY/PE/VR15
TIME : 3 HOURS

MAX. MARKS: 100

Q. No.	SECTION A (10 x 1 = 10) Answer ALL Questions	CO	KL
1	Write about the importance of envelope in virus.	1	1
2	What is the inclusion body in virus?	1	1
3	Define productive infections.	1	1
4	List the symptoms of Herpes simplex virus infection.	1	1
5	Write any two human carcinogenic virus infections.	1	1
6	How subunit vaccines are prepared against virus infections	1	1
7	Name any two primary and secondary culture used for virus isolation.	1	1
8	Define virus latency.	1	1
9	What are the two different modes of virus entry into the host cell?	1	1
10	Name any two primary mode of transmission for respiratory viral infections.	1	1
Q. No.	SECTION B (5 x 2 = 10) Answer ALL Questions	CO	KL
11	Write briefly about the DNA virus classification.	1	2
12	Explain the attachment process of virus in host cell during DNA virus replication	1	2
13	Define abortive infections with suitable example.	1	2
14	What are the prevention methods for gastrointestinal viral infections?	1	2
15	Define subunit vaccine.	1	2
Q. No.	SECTION C (4 x 10 = 40) Answer ALL Questions	CO	KL
16a	Classify virus based on Baltimore concept.	2	3
16b	(or) Show the viral latency mechanism with suitable example.		
17a	Present the mechanism of transmission of viral infection.	2	3
17b	(or) Compile sexually transmitted viral infection.		

18a	Analyze human oncoviral infection (or)	3	4
18b	Outline the merits and demerits of serological methods in viral infection diagnosis		
19a	Examine the various routes for inoculation of virus in an embryonated egg. (or)	3	4
19b	Analyze the types of vaccines for viral infections.		
Q. No.	SECTION D (2 x 20 = 40) Answer ALL Questions	CO	KL
20a	Describe about RNA virus replication. (or)	4	5
20b	Evaluate viral interaction mechanisms which contribute to host infection.		
21a	Generate the etiology and pathogenesis of Creutzfeldt - Jakob disease. (or)	5	6
21b	Formulate molecular methods used to diagnose viral infections.		
