Seat No:______ Enrollment No:_____

PARUL UNIVERSITY

FACULTY OF APPLIED SCIENCE M.Sc., Summer 2017-18 Examination

Semester: 2 Date: 11/05/2018

Subject Code: 11201151 Time: 10.30 am to 1.00 pm

Subject Name: Molecular Virology Total Marks: 60

Instructions:

- 1. All questions are compulsory.
- 2. Figures to the right indicate full marks.
- 3. Make suitable assumptions wherever necessary.
- 4. Start new question on new page.

4. Start new question on new page.	
Q.1. A) Essay type/	(08)
Explain Baltimore classification system.	, ,
Q.1. B) Answer the following questions (Any two)	
(a) Brief note (2x2)	(04)
1. Give any two examples of + sense ssRNA virus	
2. Give any two examples of ds DNA virus	
(b) Short note on cultivation of virus.	(04)
(c) Short note on propagation of virus in cell culture.	(04)
Q.2. A) Answer the following questions.	
(a) Brief note (2x2M) (Each of 02 marks)	(04)
 Define cytopathic effect 	
2. Define hemaggulutination assay	
(b) Short note on TCID ₅₀	(04)
Q.2. B) Answer the following questions (Any two)	(0.2)
(a) Short note on structure of TMV	(03)
(b) Short note on replication of CMV	(03)
(c) Short note on lyophilization for preservation of virus.	(03)
Q.3. A) Essay type	(08)
Explain structure and replication of phage M13	
Q.3. B) Answer the following questions (Any two)	(0.4)
(a) Write s short note on lifecycle of T-even phage	(04)
(b) Write short note on replication of ¢ X 174.	(04)
(c) Write short note on replication of adenovirus.	(04)
Q.4. A) Answer the following questions.	(04)
(a) Short note on replication of Influenza	(04)
(b) Write short note on tumor viruses.	(04)
Q.4. B) Answer the following questions (Any two)	(03)
(a) Write short note on Structure of Influenza (b) Write short note on poplication in Hangitia virus	(03)
(b) Write short note on replication in Hepatitis virus	(03)
(c) Write short note on structure of Pox virus.	(03)