PARUL UNIVERSITY FACULTY OF APPLIED SCIENCE M.Sc.Winter, 2018-19 Examination

Enrollment No:_____

M.Sc. Winter, 2018-19 Examination	
Semester: 2 Subject Code: 11201151 Subject Name: Molecular Virology	Date: 17/12/2018 Time: 10:30 am to 01:00 pm 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.	
Q.1. A) Essay type/ Brief note (4x2) (Each of 04 marks)	(08)
Methods of cultivation, detection, and maintenance of viruses .	
Q.1. B) Answer following questions (Any two)	
(a) Structure and replication of TMV.	(04)
(b) Classify the viruses.	(04)
(c) Structure and replication of Cauliflower mosaic virus.	(04)
Q.2. A) Answer the following questions.	
(a)Write a note on Lytic ds linear DNA virus T2.	(04)
(b) Write a note on ss Circular DNA virus (Ø X 174).	(04)
Q.2. B) Answer the following questions (Any two)	
(a) Short note questions. (Each of 01 marks)	(03)
1. Define virus.	
2. Define lytic cycle	
3. Define lysogeny cycle	
(b) Why are virus alive / dead explain?	(03)
(c) Describe the morphological types of viruses.	(03)
Q.3. A) Essay type/ Brief note (4x2) (Each of 04 marks)	(08)
Male specific filamentous ss RNA virus F17 and M13	
Q.3. B) Answer the following questions (Any two)	
(a) What is antigenic shift with respect to Human Flu? Explain?	(04)
(b) Describe the Nucleic acid types of viruses.	(04)
(c) What is Host range of virus? How is it important?	(04)
Q.4. A) Answer the following questions.	
(a) How do cells effect post virus infection?	(04)
(b) Illustrate the life cycle of virus.	(04)
Q.4. B) Answer the following questions (Any two)	
(a) Short note/ Multiple choice questions. (Each of 01 marks)	(03)
1. What is David Baltimore's contribution?	
2. What is Reovirus?	
3. What are Viral plaques?	
(b) How is QT-PCR used for copy number estimation of virus?	(03)
(c) Describe role of ICTV.	(03)