## Virology – Biology W3310/W4310 Spring 2016 Prof. V. Racaniello Study questions for lecture 2 - The infectious cycle

- 1. What is a susceptible cell? A resistant cell? A permissive cell? Which describes the only cell that can take up a virus particle and replicate it?
- 2. What is cytopathic effect? Name two examples.
- 3. How does a plaque assay work? How many viruses are needed to form a plaque?
- 4. Are all virus particles infectious? What is the term used by virologists to measure this?
- 5 What are the individual phases of the one step growth cycle, and what occurs during each?
- 6. What is MOI?
- 7. At an MOI of 1, a significant number of cells will get no virions and a similar number will get one virion. Some (a smaller number) will get 2, 3, or more. How do you know?

Fill out the table below.

## Proportion (probability) of cells infected with:

МОІ	0 pfu	1 pfu	More than 2 pfu
0.01			
0.1			
1			
10			.1

8. In addition to the plaque assay, what other methods are used to measure virus particles?