

Virology – Biology W3310/4310 Spring 2016 Prof. V. Racaniello  
Study Questions for Lecture 19 – Vaccines

1. What is “herd immunity”?
2. What is the difference between a passive vaccine and an active vaccine? Describe a natural method of passive immunization.
3. Compare attenuated and inactivated vaccines. Provide an example of each and how they function.
4. Why do some vaccines need adjuvants and others do not?
5. How do the HPV and HBV vaccines differ from a subunit vaccine?
6. What are advantages and disadvantages of the oral poliovirus vaccine (OPV)? What public health problems are likely to occur if OPV vaccination is abruptly ended?
7. Smallpox has been eradicated and polio might soon be. Like love, eradication is not forever. Why not?