

Name: \_\_\_\_\_

Immunology and Virology (Bio 440):  
Reading Quiz #20:  
Retrovirus

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Choose the one best answer for the questions below:

1. One way that retroviruses are different from all the other viruses we've studied so far is:
  - a. They are diploid.
  - b. They carry enzymes in their capsids.
  - c. Their RNA has a 5' cap and a poly(A) tail.
  - d. They utilize the cellular transcription machinery to make mRNA.
  
2. The following are all steps in synthesis of cDNA by reverse transcription except:
  - a. Priming of the first strand by a cellular tRNA
  - b. Priming of the second strand by the poly(A) portion of a cellular mRNA
  - c. Degradation of the viral RNA by RNase H activity
  - d. "Jumping" of reverse transcriptase from the 5' "R" region to the 3' "R" region
  
3. Which of the following is true about transcription of the provirus (to make viral mRNA and new viral genomes):
  - a. It occurs in the cytoplasm.
  - b. It requires a viral replicase.
  - c. It requires a promoter located in the LTR.
  - d. It requires an active host gene located nearby.