INTRO TO VIROLOGY	Name
QUIZ for lesson 10	

1١	Which	ono	ic truo	of A	cvclovir?
Τ)	vvnich	one	is true	OI A	CVCIOVIT !

- a) It blocks the M2 channel.
- b) It prevents fusion with the cell membrane.
- c) It binds to neuraminidase.
- d) It mimics a guanine rung.
- 2) What does the word "attenuated" mean? a) killed b) weakened c) mutated d) recycled

Date \_\_\_\_\_

- 3) Which researcher used chemicals to damage the polio virus? a) Salk b) Sabin
- 4) How can viruses become resistant to anti-viral medicines?
  - a) Through mutations to the genome which cause tiny changes in the shapes of their proteins.
  - b) By acquiring more protein tools inside their capsids.
  - c) By changing their genomes from RNA to DNA, or vice versa.
  - d) Their protease "scissors" develop the ability to shred the medicine molecules.
- 5) What is the main purpose of an adjuvant?
  - a) To be a preservative that will increase the shelf life of the vaccine.
  - b) To get other types of immune cells to help with the antibody response by T and B cells.
  - c) To add an additional chemical that will help to poison the virus.
  - d) To prevent other immune cells from hindering the antibody response by T and B cells.

## TRUE or FALSE?

6) There are still some viruses for which we have neither vaccine nor anti-viral medicine.
7) The goal of an anti-viral medicine is to block or break a viral part without harming the body cell
8) Only guanine rungs can be mimicked by anti-viral analogue medicines.
9) Only immune system cells have MHC-2 receptors.
10) These is only one type of influenza vaccine.
11) Only B cells can become memory cells.
12) Immune cells must have whole virus capsids in order to make antibodies.
13) Sabin's attenuated polio vaccine could still infect intestinal cells.
14) Sabin knew exactly how his vaccine worked.
15) Polio's genome has been completely mapped out, down to every last rung of its RNA.

## INTRO TO VIROLOGY QUIZ for lesson 10 ANSWER KEY

1) d
2) b (Though attenuated virus have mutations, the word itself means "weakened.")
3) a
4) a
5) b
6) T
7) T
8) F
9) T IThey use them to show protein samples to T cells.)
10) F
11) F (T cells can also become memory cells.)
12) F
13) T
14) F (He lived before the era of genome mapping and didn't know anything about the polio IRES.)

15) T (Yes, they keep track of the genomes of all the polio strains and look for any new mutations.)