1) Who was the first person to isolate viruses using a Chamberland filter?
   a) Dmitri Ivanovsky   b) Felix d'Herelle   c) Edward Jenner   d) Louis Pasteur

2) For centuries, people had been using this procedure to prevent smallpox.
Healthy people were exposed to small amounts of pus or scabs from someone with smallpox.
   a) vaccination   b) variolation   c) viration   d) immunization

3) What do you call something that transfers disease from one organism to another?
   a) virion   b) virus   c) vaccine   d) vector

4) Jonas Salk made a vaccine for what viral disease?   a) influenza   b) polio   c) yellow fever   d) smallpox

5) What technique did Rosalind Franklin use to help Watson and Crick discover the structure of DNA?
   a) x-ray crystallography   b) PCR   c) electron microscope pictures   d) filtration   e) hemagglutinin test

6) Which type of virus will grow in eggs?   a) HIV   b) influenza   c) Pandora virus   d) bacteriophage

7) The vaccinia virus is a very popular species for scientific research. From what original virus did it come?
   a) influenza   b) polio   c) cowpox   d) smallpox   e) adenovirus

8) Who made the classification system for viruses?
    a) Francis Crick   b) David Baltimore   c) Louis Pasteur   d) Jonas Salk

9) Who developed a vaccine for rabies?   a) Louis Pasteur   b) Edward Jenner   c) Jonas Salk

10) PCR uses an enzyme called Taq polymerase. What is its unusual capability?
    a) It can split DNA.   b) It can survive very high temperatures.
    c) It can survive for years in a lab dish.   d) It is easy to extract.

11) What does "in vitro" mean?   a) in a cell   b) living   c) in a glass lab dish   d) in an injection needle

12) This tool provided the first step toward the discovery of viruses.
    a) test tube   b) electron microscope   c) x-ray machine   d) filter

TRUE or FALSE?

13) _____ Tobacco Mosaic Virus was the first virus to be imaged with an electron microscope.

14) _____ SARS. MERS and Covid-19 are all coronaviruses.

15) _____ As far as we know, smallpox has been eliminated.

INTRO TO VIROLOGY
QUIZ for lesson 3
ANSWER KEY

1) a
2) b
3) d
4) b
5) a
6) b
7) c
8) b
9) a
10) b
11) c
12) d
13) T
14) T
15) T