

TEST NAME: **Microbiology**  
TEST ID: **201275**  
GRADE: **08**  
SUBJECT: **Life and Physical Sciences**  
TEST CATEGORY: **My Classroom**

Student: \_\_\_\_\_

Class: \_\_\_\_\_

Date: \_\_\_\_\_

1. West Nile virus was once considered a minor risk to humans. Today, it is transmitted through female mosquitoes. What kind of relationship do mosquitoes carrying the West Nile virus have with humans?
  - A. commensalism
  - B. mutualism
  - C. parasitism
  
2. Why is the prevention of epidemics usually easier than the prevention of a pandemic?
  - A. The diseases in an epidemic are less severe than in a pandemic.
  - B. Diseases causing pandemics are more contagious than diseases in an epidemic.
  - C. Affected individuals in epidemics are usually more concentrated in one area than in pandemics.
  
3. Which has made the **most** significant difference to reduce the spread of epidemics and pandemics worldwide?
  - A. water treatment
  - B. decreased pollution
  - C. increased medical aid
  
4. Which is the vector for malaria?
  - A. fly
  - B. bacteria
  - C. mosquito

5. How can a pandemic be prevented?
- A. by monitoring exposed humans and animals
  - B. by better food preparation practices
  - C. by strict nutritional requirements
6. If a monkey is a vector for an infectious disease, which **best** describes how it transmits into the human population and becomes an epidemic?
- A. The monkey inhales contaminated drops from the air.
  - B. The monkey bites a human.
  - C. The monkey shares food.
7. Which disease would be an example of a current pandemic?
- A. HIV
  - B. measles
  - C. chicken pox
8. Which **most accurately** describes what makes a mosquito a vector?
- A. A mosquito can be sick with malaria but not spread the disease.
  - B. A mosquito can spread malaria but not be sick with the disease.
  - C. A mosquito can carry malaria but not spread the disease.
9. Which is the **best** requirement for viruses to reproduce?
- A. The virus must be inside a living cell.
  - B. The virus must produce a toxin.
  - C. The virus must be a pathogen.
10. Which **best** explains why a contagious disease is likely to become an epidemic?
- A. failure to follow safety rules when handling bacteria
  - B. lack of understanding as to how the disease is spread
  - C. creation of supergerms due to the overuse of antibiotics

11. Which has had the **greatest** impact on preventing epidemics in the twenty-first century?
- A. immunizations
  - B. new medicines
  - C. good hygiene
12. Which **best** explains why researchers are working to improve antimicrobial drugs?
- A. Microbes are becoming more resistant to current drugs.
  - B. Microbes are learning to detect current drugs and avoid them.
  - C. Microbes are growing too large to be stopped by current drugs.
13. Why is antimicrobial resistance a serious public health issue?
- A. because of the limited availability of antibiotics to the public
  - B. because of the difficulty in educating the public on the topic of proper medication use
  - C. because of the increasing cases of antibiotic-resistant microbes related to hospital stays
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