Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block: \_\_\_\_Date: \_\_\_\_\_\_\_\_\_\_\_

**Agents of Disease Unit Quiz:**

\_\_\_\_\_ 1) What is ***Microbiology***?

(A) The science of microchips and technology (B) A Basic science that explores hydrothermal vents

(C) Science that explores microscopic organisms (D) Science that examines how microscopes work

\_\_\_\_\_ 2) Microbes with the ability to infect the human body and interfere with normal body functions include:

(A) Bacteria and Proteins (B) Nucleotides and Parasites

(C) Viruses (D) Bacteria, Viruses, Parasites, and Fungi

\_\_\_\_\_ 3) What are ***Viruses?***

(A) Living Organisms that reproduce sexually (B) Non-Living particles made of DNA/RNA and protein

(C) Organisms that can reproduce without a host cell (D) Deadly in all cases in both humans and animals

\_\_\_\_\_ 4) What is a ***Virus Reservoir?***

(A) A host that has become infected by a virus (B) Any organism that transmits an infectious agent

(C) An animal where a virus survives and persists (D) A Non-Living vehicle for disease transmission

\_\_\_\_\_ 5) Disease spread through ***non-hereditary means from person to person*** is known as:

(A) Vertical Disease Transmission (B) Horizontal Disease Transmission

(C) Antigenic Shift (D) Fomitic Vector

\_\_\_\_\_ 6) What is a***Vector*?**

(A) The injection point on a bacteriophage (B) Non-living vehicle of disease transmission

(C) Patient Zero of any given Epidemic (D) A living organism that carries and transmits disease

\_\_\_\_\_ 7) ***Non-Living Objects*** that transmit disease causing pathogens are known as:

(A) Fomites (B) Vectors

(C) Plasmids (D) Walkers

\_\_\_\_\_ 8) How are diseases **MOST COMMONLY** spread?

(A) Vectors (B) Direct Contact/Transmission

(C) Indirect Transmission (D) Fomites

\_\_\_\_\_ 9) ***HIV*** is caused by:

(A) Bacteria (B) Fungi

(C) Viruses (D) Parasites

\_\_\_\_\_ 10) What is used to control and prevent the spread of ***viral*** diseases?

(A) Antibiotics (B) Chemotherapy

(C) Steroids (D) Vaccines

\_\_\_\_\_ 11) Bacteria are ***prokaryotic, single-celled*** organisms, meaning they:

(A) Have no Nucleus or Mitochondria (B) Need a host cell to reproduce

(C) Reproduce through Binary Fusion (D) Can only live in temperate environments

\_\_\_\_\_ 12) Bacteria reproduce by ***Binary Fission***, which allows the following:

(A) To reproduce both asexually and sexually (B) To reproduce very slowly through Meiosis

(C) To reproduce asexually extremely rapidly (D) To be forever alone

\_\_\_\_\_ 13) Why have **“Super Bugs”** become a medical threat to the human species?

(A) Over-prescription of antibiotics (B) Overuse of antibacterials in products

(C) Use of Growth Promoting antibiotics in livestock (D) All of the above are contributing to this problem

\_\_\_\_\_ 14) What are ***Fungi***?

(A) Photosynthetic prokaryotes (B) Single-Celled autotrophs

(C) Non-photosynthetic eukaryotes (D) Just Mushrooms

\_\_\_\_\_ 15) What is a ***Parasite***?

(A) An organism that provides energy and a food source to a host (B) Provides no harm or benefit to host

(C) An organism that feeds on another individuals, called the host (D) Non-living particles of DNA/Protein

16) What is one common misconception about vaccination, and explain the facts behind that misconception:

\_\_\_\_\_ 17) What’s the difference between an ***Epidemic*** and a ***Pandemic*?**

(A) People only die in Epidemics (B) Pandemics are small-scale outbreaks of disease

(C) Epidemics are when a disease spreads globally (D) Pandemics are more widespread and infectious

\_\_\_\_\_ 18) Disease outbreaks can spread more rapidly today due to which of the following:

(A) Public Transportation (B) Global air travel

(C) Densely populated cities (D) All of these contribute to rapid infection rates

\_\_\_\_\_ 19) Where do we get the majority of our “**Human Microbiome”?**

(A) From the food we eat (B) From our Mothers during birth

(C) From the environment around us (D) From rolling around in the mud

20) **Scenario:** You are the Governor of New York State. You’ve just gotten word that a plane is about to land at JFK International Airport and several of the passengers are showing symptoms of Ebola. The plane lands in 2 hours. What actions do you take as Governor?

**Extra Credit: 5 Possible Points—Partial Credit Available**

*(5 Points)* **Is Malaria caused by a virus, bacterium, fungi, or parasite(3 Points)? What Vector spreads Malaria (2 Points)?**