Microbiology Chapter 1

Review Outline

1. Fill in the table below regarding scientists. Make sure to include details of their work. The more thorough you are the more benefit you will see on test day.

|  |  |  |
| --- | --- | --- |
| Scientist | Discovery/Famous for | Definitions  Details |
| Pasteur (3) |  | Spontaneous Generation  Pasteurization  Fermentation |
| Jenner (4) |  | Immunity   * Active * Passive * Natural * Artificial |
| Lister (1) |  | * Examples of Aseptic Technique |
| Fleming (1) |  |  |
| Koch (5) | Postulates   * Postulate 1 * Postulate 2 * Postulate 3 * Postulate 4 | Diseases Studied  Exceptions |

2. Understand and be able to identify the following terms related to disease transmission in scenarios.

|  |  |  |
| --- | --- | --- |
| Term | Definition | Example |
| Vector(2) |  |  |
| Reservoir (1) |  |  |
| Host |  |  |

3. Understand and be able to identify the following terms related to diseases occurring in the population.

|  |  |  |
| --- | --- | --- |
| Term | Definition | Example |
| Remerging (3) |  |  |
| Emerging (1) |  |  |
| Epidemic (2) |  |  |
| Pandemic (2) |  |  |
| Endemic (1) |  |  |

4. Describe the relationship between pathogenicity and virulence (2).

5. Fill in the table for Genus and Species classification (2).

|  |  |
| --- | --- |
| Genus (Circle which apply) | Species (Circle which apply) |
| Capitalized or Not | Capitalized or Not |
| Underlined or Not | Underlined or Not |
| Examples: |  |  |

6. Fill in the table below regarding various designations of microbial life.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Organism Category | Unique/Classifying Criteria | Examples | (If applicable)  How to Inherit/Transmit | (If applicable)  How to Treat |
| **Virus (4)** |  |  |  |  |
| **Bacteria Types (9)**   1. Prokaryote Bacteria |  | Ecoli  (Know this) |  |  |
| 1. Prokaryote Archea Bacteria |  |  |  |  |
| **Eukaryotic Fungi Types (11)**  1. Uni-Cellular |  |  |  |  |
| 2. Multicellular |  |  |  |  |
| Organism Category | Unique/Classifying Criteria | Examples | (If applicable)  How to Inherit/Transmit | (If applicable)  How to Treat |
| **Helminths (2)** |  |  |  |  |
| **Prions (6)** |  | Mad Cow (Know This) |  |  |