Microbiology Review

Microbiology

1) Define microbiology.

2) What is the difference between inoculation and incubation?

3) What is the difference between prokaryotes and eukaryotes?

Taxonomy

1) Define taxonomy.

2)What is meant by binomial nomenclature? Provide one animal listed in binomial nomenclature.

3)Name the taxonomic categories IN ORDER (King Philip Came Over For Great Soup).

4) What are the three domains?

5) Be prepared to use a dichotomous key to classify microbes.

Archae and Bacteria

1) What two kingdoms can bacteria be classified into?

- 2) Are bacteria prokaryotic or eukaryotic?
- 3) What is the most studied eubacteria?
- 4) What are four ways in which eubacteria could be classified?
- 5) What is the difference between archae bacteria and eubacteria?
- 6) Name and describe one way we can classify eubacteria?

Asexual Reproduction

1) NAME and DESCRIBE the two types of asexual reproduction. How are the different?

Protista

1) Are Protista eukaryotes or prokaryotes?

- 2)What are the three types of Protista?
- 3)Describe in detail plant-like, animal-like, and fungus-like protazoa.

4)Name four categories of animal-like protazoa.

Viruses

- 1) What are viruses not considered to be living?
- 2) What is a capsid?
- 3) What are the proteins on the outside of a virus used for?
- 4) What two ways can viruses be classified?
- 5) Outline the six steps of a virus entering a host cell.

Immune System

- 1) Define pathogen.
- 2) Name two organs in the immune system and what they do.
- 3) Outline the three lines of defense. Briefly describe what happens at each line.
- 4) Define the term antigen and antibody.
- 5) What is the difference between passive and active immunity?

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Fungus

1)Define a fungus.

- 2) Name one similarity between plants and fungi.
- 3) Name three differences between plants and fungi.
- 4) What are the two main types of fungi?
- 5) What is the difference between hyphae and mycelium?
- 6) What is an opportunistic pathogen?
- 7) What drugs do we use to treat a fungal infection?

Defense Against Disease

- 1) Define epidemiologist, virologist, virulent, and epidemic.
- 2) Outline the five lines of defenses against disease in the body. Be able to provide an example for each.
- 3) What are vaccines and how do they work?
- 4) What are the four types of preventative measures used to control epidemics.