

I. Overview

A. Pathogen

1. definition: _____

a. parasite: _____

b. disease: _____

B. Non-Pathogen Parasites

1. Most parasitic relationships _____

a. Example: certain bacteria that live in the human intestines create a waste product we call vitamin K, _____

II. How Pathogens Cause Disease

A. Types of Pathogens

1. bacteria: _____

2. viruses: _____

3. fungi: _____

4. protozoan: _____

5. helminths: _____

B. Possible Entry Points

1. through the skin: _____

2. through mucus membranes - example: _____

3. ingested with _____

4. _____

C. How Bacteria Causes Disease

1. they must _____
2. they must _____
3. penetrating the cell surface can result _____

4. once colonized or inside a cell _____

D. How Viruses Cause Disease

1. they must _____
 - a. to reproduce, _____

 - b. the use of _____
 - c. the mass killing of cells can _____
 1. since intestinal cells reproduce rapidly _____

 2. viral infection of neurons, _____

 3. viral infection of immune system cells _____

E. How Fungi Cause Disease

1. host tissue _____
2. allergic reactions _____

F. How Protozoans and Helminths Cause Disease

1. tissue fluids _____
2. toxic waste products _____
3. nutrients meant for the host are used by the parasitic pathogen- _____
