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# MICROBIOLOGY HCC FINAL EXAM QUESTIONS & ANSWERS

**Pathogens - ANSWER** any agent-usually a virus-bacterium, fungus, protozoan, or helminth-that causes disease

**Decomposers - ANSWER** a consumer that feeds on organic matter from the bodies of dead organisms. These microorganisms feed from all levels of the food pyramid and are responsible for recycling elements (also called "saprobes")

**Genetic Engineering - ANSWER** a field involving deliberate alterations (recombinations) of the genomes of microbes, plants, and animals through special technological processes.

**Biotechnology - ANSWER** the use of microbes or their products in the commercial or industrial realm.

**Characteristics of Viruses - ANSWER** 1) Obligate, intracellular parasites of bacteria, protozoa, algae, fungi, plants, and animals

2) acellular; not cell-like

3) ultra-microscopic

4) do not have characteristics of life

5) inactive while outside host cell

6) Basic structure consists of protein shell (capsid) which surrounds a nucleic acid (core)

7) Nucleic acid can be either DNA or RNA (never both)

8) Nucleic acid can be ssDNA, dsDNA, ssRNA, dsRNA

9) Viruses are specific to host cells (specificity)

10) Multiplies by taking control of host cell's metabolic activities

**Phylogeny - ANSWER** the evolutionary development and diversification of a species or group of organisms, or of a particular feature of an organism

**Helminthes - ANSWER** all parasitic worms

**Taxonomic Hierarchy - ANSWER** -Domain

-Kingdom

-Phylum

-Class

-Order

-Family

-Genus

-Species

# Microbiology 2420 Hcc Lab Manual Answers

**Lehman**



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