BIOLOGY - CHAPTER 16 PRACTICE TEST

Multiple Choice.

- 1) The term "pathogen" refers to:
 - a. A disease process
 - b. An organism or virus that causes disease
 - c. A toxin produced by a bacterium that causes disease
 - d. A toxin produced by a virus that causes disease
- 2) Viral structure can best be described as:
 - a. A clump of DNA surrounded by a protein coat.
 - b. A clump of RNA surrounded by a protein coat
 - c. A clump of DNA or RNA surrounded by a lipid coat.
 - d. A clump of DNA or RNA surrounded by a protein coat.
- 3) How do viruses cause disease?
 - a. Viruses release toxins that kill cells directly.
 - b. Viruses insert their genetic material into host cells and use the host cell's organelles to reproduce.
 - c. Viruses within a host cell will burst out of the host cell and cause the host cell to die.
 - d. Both a and b are correct.
 - e. Both b and c are correct.
- 4) How do bacteria cause disease?
 - a. Bacteria release toxins that kill cells directly.
 - b. Bacteria insert their genetic material into host cells and use the host cell's organelles to reproduce.
 - c. Bacteria within a host cell will burst out of the host cell and cause the host cell to die.
 - d. Both a and b are correct.
 - e. Both b and c are correct.
- 5) Which of the following do all pathogenic viruses need in order to reproduce?
 - a. Reverse transcriptase
 - b. The equipment of the host cell
 - c. Amino acids
 - d. A signal from other viruses
- 6) Which of the following is NOT found in bacteria?
 - a. Cell wall
 - b. Membrane bound nucleus
 - c. Ribosome
 - d. Plasma membrane
- 7) Where are you likely to find a photoautotroph?
 - a. In your refrigerator
 - b. In the darkness of the ocean
 - c. In your digestive system
 - d. Near the surfaces of lakes, streams, and oceans

8) When treated with Gram stain, Gram-positive bacteria appear:
a. Purple b. Pink
c. Yellow
d. Orange
d. Orange
9) A lytic cycle concludes with the:
a. Embedding of viral DNA into the host cell's DNA
b. Production of a bacteriophage
c. Bursting of the host cell
d. Production of messenger RNA
10) 0
10) Some scientists think life originated in:
a. Dry mountaintopsb. Desert plains
c. Deep sea hydrothermal vents
d. Polar ice caps
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Fill-in-the-blank.
11) Scientists have found that polypeptides will form when solutions containing high
concentrations of are dropped onto hot sand, clay, or rocks.
12) The knoblike root nodules of soybean plants are the sites where certain species of
bacteria convert gas in the air to compounds in the soil.
gas in the air to compounds in the son.
Short answer.
13) Why are antibiotics not always successful in treating a bacterial infection?
14) What is the purpose of Gram staining?
15) What are the four proposed stone for here life developed on Forth?
15) What are the four proposed steps for how life developed on Earth?

ANSWER KEY:

- 1 B
- 2 D
- 3 E
- 4 A
- 5 B
- 6 B
- 7 D
- 8 A
- 9 C
- 10 C
- 11 amino acids
- 12 nitrogen
- 13, 14, 15 see study guide