

AMBIENT Content Questions

Bacterial Growth Scenario

1. What is the effect of sugar on yeast?
 - a. Inhibits growth activity of yeast
 - b. The yeast eats the sugar and gives off carbon dioxide
 - c. The sugar kills the active part of the yeast
 - d. The yeast reproduces in the sugar

2. Under what conditions will microbial growth be optimized?
 - a. High salinity, high temperature
 - b. High salinity, low temperature
 - c. Low salinity, high temperature
 - d. Low salinity, low temperature

3. Which of the following environmental conditions does not encourage microbial growth?
 - a. Temperature
 - b. Tidal movement
 - c. Other microbes
 - d. Surface winds

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Bacterial Movement Through Water: Part 2 – Dilution/Powers of Ten

1. What is ppm an abbreviation for?
 - a. Particles per microbe
 - b. Parts per micron
 - c. Parts per milliliter
 - d. Parts per million

2. If you make a solution of one drop of food coloring and 9 drops of water, what concentration have you made?
 - a. 50%
 - b. 10%
 - c. 90%
 - d. 0.10%

3. How do we express the value of ten to the first power?
 - a. $1^{10}=1$
 - b. $10^1=10$
 - c. $10^1=1$
 - d. $10 \times 10=100$

4. What is the mathematical rule with numbers to the power of zero? (example: $5^0 = ?$)
 - a. Any number to the power of zero is equal to the root number
 - b. Any number to the power of zero is equal to zero
 - c. Any number to the power of zero is an irrational number
 - d. Any number to the power of zero is equal to one

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Get Your Butt of the Beach!

1. What is the best kind of data to collect to show how people have polluted the beaches?
 - a. Observation of people on the beach
 - b. Research the laws that allow dumping
 - c. Collect samples on the beach
 - d. Test the water

2. What is the most serious source of pollution on the beaches for human health?
 - a. Bacteria from sewage
 - b. Garbage
 - c. Chemicals
 - d. Food

3. Which of the following would decompose the slowest?
 - a. Plastic
 - b. Wood
 - c. Cloth
 - d. Food

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Molecular Movement in Water: Part 1 – Diffusion

1. What is the effect of temperature on diffusion?
 - a. lower temperature causes more diffusion
 - b. higher temperature causes more diffusion
 - c. a temperature that is neither too high nor too low causes more diffusion
 - d. temperature has no effect on diffusion.

2. What is the difference between a solvent and a solute?
 - a. Sugar (solute) is dissolved in tea (water is the solvent)
 - b. Salt (solvent) is dissolved in sea water (solute)
 - c. Honey (solvent) is dissolved in tea (water is the solute)
 - d. Hydrogen is the solute of water

3. What is diffusion?
 - a. Dilution
 - b. Spreading something out
 - c. Putting one thing in another
 - d. Increasing a substances concentration

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Water and Sewage Critical Reading

1. Why would Key West invest \$30 million to lay new pipes?
 - a. There have been sewage spills
 - b. Nearly half of the water entering the sewage plant comes from sea water moving into old pipes
 - c. The pipes leak sewage in huge amounts into the sea water
 - d. It's the only solution to the problem

2. How do most boats currently deal with their sewage waste?
 - a. Dumping overboard
 - b. On-board treatment techniques
 - c. Carry waste to dump sites
 - d. Bring waste to garbage boats

3. The Florida Keys face many environmental threats. Which of the following is the most severe?
 - a. Human waste
 - b. Hospital dumping
 - c. Radioactive waste
 - d. Algae

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Water Mapping Lab

1. What is a term used for tides?
 - a. Flip tide
 - b. Ebb tide
 - c. Flow tide
 - d. Current tide

2. What change in the environment encourages bacterial growth the most?
 - a. Tidal cycle
 - b. Wind
 - c. Topography
 - d. Increasing temperature

3. Which of the following is not a factor in the spread of contamination after a spill in ocean water?
 - a. Duration of the spill
 - b. Water salinity
 - c. Current speed
 - d. Surface wind

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Water Microbes and Human Health Exercise

1. Which of the following is not a microbe that commonly affects human health?
 - a. Cryptosporidium
 - b. Schistosoma
 - c. Quaricomium
 - d. E. Coli

2. What disease is caused by e. coli?
 - a. Sinusitis
 - b. Gastroenteritis
 - c. Headaches
 - d. Achy joints

3. Which of the following is untrue of Hepatitis?
 - a. Sometimes caused by sewage contamination
 - b. Affects primarily the stomach
 - c. Affects primarily the liver
 - d. Similar in symptoms to gastroenteritis

4. Indicator microbes are:
 - a. Microbes that are found in fish in polluted waters, indicating that the water is unsafe.
 - b. Microbes that are added to water samples which through their reaction with certain substances indicate water pollution.
 - c. Microbes which are found in normal safe water that are dead in polluted water.
 - d. Microbes which are typically found in human feces which indicate that water may be contaminated