ALBERTA SCIENCE 30 · UNIT B · 10 QUESTIONS

Chemistry in the Environment — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **Plastics are polymers. The small molecules that are joined together in long chains to make a polymer are called**

- A isomers
- B esters
- C atoms
- D monomers

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2 **A hydrocarbon has the molecular formula C_3H_6 and contains one carbon-carbon double bond. The name of this hydrocarbon is**

A propane

B propyne

C propene

D propanol

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3 **High counts of coliform bacteria in a sample of lake water are used as an indicator of**

A possible contamination of the water by sewage

B high levels of dissolved oxygen in the water

C low turbidity of the water

D excessive hardness of the water

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4 **In the catalytic converter of a gasoline-powered vehicle, nitrogen oxides are converted into**

A ozone and water

B nitrogen gas and oxygen gas

C nitric acid

D ammonia

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5 **A spill adds 45 g of a soluble chemical to a small pond that contains 9.0×10^4 kg of water. One part per million is equal to 1 mg/kg. The concentration of the chemical in the pond water is _____ ppm Record your answer to the nearest tenth.**

ANSWER _____

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6 **The region of greatest stratospheric ozone depletion, often called the ozone hole, develops**

A over Antarctica during the polar spring

B over the Arctic during the polar summer

C over the equator throughout the year

D over industrial cities during the winter

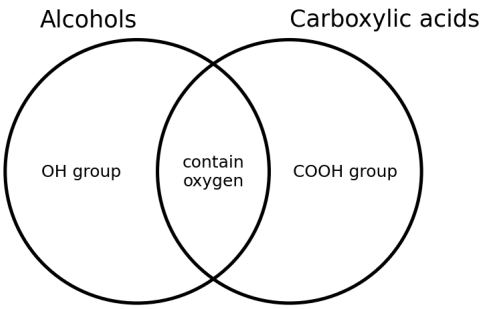
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7 **A sample of vinegar has a hydrogen ion concentration of $[H^+] = 4.0 \times 10^{-3}$ mol/L. The pH of the vinegar is _____ Record your answer to the nearest hundredth.**

ANSWER _____

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8 **The diagram compares two families of organic compounds. A feature shared by both families is that they**



A contain oxygen

B contain only carbon and hydrogen

C are gases at room temperature

D have a carbon-carbon triple bond

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9 **Cyclopentane is a cycloalkane that contains 5 carbon atoms arranged in a ring. The number of hydrogen atoms in one molecule of cyclopentane is _____ Record your answer as a whole number.**

ANSWER _____

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10 **Acid deposition gradually damages marble and limestone statues and buildings because the acid reacts with**

A the silica in the stone

B the calcium carbonate in the stone

C the iron oxide in the stone

D the clay minerals in the stone

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ANSWER KEY

1. D
2. C
3. A
4. B
5. 0.5
6. A
7. 2.4
8. A
9. 10
10. B

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