- 1. Which environmental problem leads to dead trees, especially if they're at high altitudes?
 - (A) Global warning
 - (B) Acid rain
 - (C) Soil contaminants like mercury
 - (D) Ozone depletion
- 2. What contributes SO₂ which eventually becomes part of acid rain?
 - (A) Combustion of C-containing fuels
 - (B) Roasting metal ores and burning S-containing fuels
 - (C) High temperatures in engines
 - (D) Use of refrigerants and sprays
- 3. Where on Earth is the largest depletion of ozone?
 - (A) Antarctica
 - (B) Arctic Circle
 - (C) Greenland
 - (D) Himalayas
- 4. The porosity of rock will influence how fast water from a watershed is delivered to a river or bay. The factor being described here is
 - (A) Climate
 - (B) Geology
 - (C) Topography
 - (D) Vegetation



- (A) Hudson Bay
- (B) Lake Champlain
- (C) St. Lawrence River
- (D)Ungava Bay



- 6. An ice floe(small) is to sea ice what a glacier is to an_____.
 - (A) Iceberg
 - (B) Ice cube
 - (C) Ice cap
 - (D)Ice cream



- 7. What name is given to permanently frozen ground?
 - (A) Permafrost
 - (B) Ice cap
 - (C) Snow
 - (D)Tundra
- 8. What greenhouse gas is released by decomposers when permanently frozen ground begins to thaw?
 - (A) Carbon dioxide
 - (B) Nitrous oxide
 - (C) Water
 - (D) Methane
- 9. What organisms convert waste into phosphates?
- 10. What two P-containing polyatomics are absorbed directly by plants?
- 11. a) What comes first? eutrophication? or
 - b) In which two cycles, does eutrophication occur because of excess nutrients in lakes?
 - c) Aside from shallow lakes, excess algae, oxygen depletion and dead fish, what else can eutrophication lead to?

- 12. a) When ice floats, what two forces are balancing each other out?
 - b) If the ice is moved to sea water of a greater density, what will happen to the amount of ice sticking out of the water? (More? Less? The same?)
 - c) Will a full glass holding an ice cube overflow with water after the ice melts?___
 - d) If water- ice sinks in alcohol, will the volume of the alcoholic drink shrink after the completely submerged ice melts?
- a) Which layer of the ocean is subject to the most dramatic changes in temperature?b) Why?



- 14. How do HCO₃- ions end up in the ocean? From the weathering of rocks.
- 15. List two ways that carbon from the continent or atmosphere ends up in the ocean.
- 16. Why is London warmer then Gaspe in the winter.
- 17. What three factors affect ocean currents?
- 18. What three factors affect ocean currents?
- 19. If a sample from the Gulf of St. Lawrence has a salt concentration of 12 000 ppm, what is its concentration in %m/V?

STE Flashback: see website (topics: kinetic/potential energy, weak electrolytes, fission versus fusion; concentration in moles/L)