

Name _____

ENVR230
Fall 2007
Final Examination
Dec II, 2007
8-II am

Answer six (6) of the ten (10) questions on the ten (10) pages provided. Use the reverse of the sheets if necessary. Each question is weighted equally.

Question 1: The plagues of today

Name one environmentally-transmitted disease that you consider to be a major contemporary health threat. Compare and contrast it with a historical threat in terms of incidence, transmissibility, control measures and any other factors that you can think of.

Question 2: Major Chemical Contaminants

Describe sources, exposures levels, health consequences of two major categories of chemicals monitored by the CDC (Third Report).

Question 3: Air pollution

- A.** List and briefly describe the six criteria pollutants regulated by EPA under the Clean Air Act..
- B.** How will the increased gas mileage requirements that Congress is currently considering for cars and trucks affect ambient levels of each of the six ?

Question 4: Food Safety

What are the major federal agencies involved with food safety ?

(list, describe briefly)

Recent incidents have stimulated calls for a single Agency in charge of national food safety.

What are some of the advantages, what are some of the disadvantages of such an approach ?
(think Homeland Security).

Question 5: Occupational diseases

Which federal agency takes care of workers' health ?

When was it founded, what were its historical antecedents ?

What are the major item(s) of environmental legislation that it is charged with administering.? (list and describe briefly), and

What (if any) have been the positive consequences of this agency's actions (or, if you prefer, what bad things are we no longer seeing in the workplace thanks to this Agency) ?

Question 6: Industrial accidents: Seveso, Times Beach, Bhopal, Chernobyl

Describe one of the major industrial accidents of the past.

Are there any measures in place that would prevent a similar occurrence today (or tomorrow) ?

If not, what should such measures consist of ?

Question 7: Water

What are the major factors that need to be taken care of to ensure that our (USA) water remains safe to drink ?

Question 8: Pesticides

Are pesticides currently being used safely in the USA ?

Question 9: Love Canal and Superfund

What were the major environmental problems at Love Canal ? Would they be handled any differently (better ?) Under the current CERCLA and Superfund ?

Question 10: Environment and Asthma

How might environmental pollution cause childhood asthma ? Is asthma in adults different ?

How did the US Environmental Protection Agency come to be founded ?

What is its mission ?

What are the major items of environmental legislation that it is charged with administering.? (list and describe briefly), and

What (if any) have been the positive consequences of the EPA's actions (or, if you prefer, what bad things are we no longer seeing in the environment thanks to the EPA) ?

The creek that runs past your house is on fire. Who are you gonna call ?

(Think immediate response and also how to prevent similar occurrences in the future).