**Environmental Science Final Study Guide Part Two**

**IPM**

**Multiple Choice**

Pesticides sprayed in homes can remain as a residue in carpets and on furniture for long periods of time.

Biological controls such as parasitoids, predators, and pathogens pose fewer health risks than do synthetic chemicals.

Multicropping involves growing several different crops in the same field to discourage pests.

One advantage of natural pesticides is that they often break down quickly in the environment.

Pyrethrum and rotenone are natural pesticides.

Disease-carrying pests must be completely eliminated from an area is not an effective method of pest control.

Pests that have developed resistance can no longer be killed by a particular pesticide.

Trapping pests for return to native ecosystems is not one of the six steps of IPM.

IPM stands for Integrated Pest Management

The vast majority of insects are not pests.

The action threshold that has the least tolerance for pests and which IMP advises the use of pesticides is health.

IPM’s goal is NOT the eradication of the pest.

The three sisters of organic farming and Native Americans are corn, squash, and beans.

Vacuuming can be used as an IPM tactic.

Parasitoid is an insect that develops within an insect host.

100,000 pesticides are common worldwide.

Bio-rational pesticide is a naturally occurring compound or chemical such as a toxin or growth regulator derived from a living organism.

Minerals like kaolin, clay and diatomaceous earth, bacterial extracts and plant extracts, are examples of natural pesticides.

**True/False**

Bacillus thuringiensis is the most commonly used microbial pesticide.

Insecticidal soap has been used for many years.

Pyrethrum, rotenone, and ryania are all botanical insecticides.

Neem is a very specific pesticide.

High pressure spray is effective in pest control.

**VIDEOS**

**Deer and Elk**

**True/False**

The Eastern Elk is not the kind living in PA today.

In PA, elk do not migrate.

Antlers and horns are not the same thing.

A hemlock stand provides temperature that may be 15\* higher than the surrounding area in winter.

Vehicle collisions are now the leading cause of mortality in elk.

Barking is when an elk strips the bark off a tree to eat, usually in the winter when snows are deep.

The reclamation of strip mines benefits the elk and other animals.

The rut is the mating season for Elk and deer.

**Matching**

Royal – elk with 6 points

Raghorn – elk with 5 points

Imperial – elk with 7 points

**Multiple Choice**

The elk present in PA today is the Rocky Mountain Elk.

The antlers are removed from a nascence bull elk to protect the people of the game commission as well as to make him less aggressive.

**True/False**

Deer can strip vegetation to only about 5 feet above the ground.

Deer have a large effect on the habitat of other animals.

Forest devastated by deer will regenerate.

Deer meat is called venison.

**The Sonoran Desert: A Violent Eden**

**True/False**

It snows in the Sonoran Desert.

The Javelini is a relative to the domestic pig.

A desert is defined by its rainfall.

Animals in the wild, like the male diamond backs, don’t often inflict physical harm on their opponents in battles for dominance.

The Saguaro does not have a symbiotic relationship with the cactus bee.

There are toads in the desert.

There is enough water in a Saguaro to sustain it for a year or two.

An ecotone has characteristics of both biomes that border it on both sides, as well as those distinctive unto itself.

**Medicine Man**

**Multiple Choice**

Dr. Campbell took the Medicine Man’s stick.

The technique used in the destruction of the rain forest is slash and burn.

The cancer cure actually came from the orange ants.

**The Dust Bowl**

**Multiple Choice**

The weather pattern in the area of the dust bowl is known as the Panhandle Aspect.

It is thought that the droughts in the dust bowl area, are partially caused by the activity of the sun.

The great depression hit the farmers of the plains earlier than the rest of the country.

Dust blocked out the sun in NY for 5 hours.

During the new deal, .20 to .40 was paid to farmers, per acre, to use the chisel plow.

**Surviving the Dust Bowl**

**Multiple Choice**

Soil is wealth.

People who planted and left until harvest time were known as absentee farmers.

There have always been whirlwinds in the panhandle.

In the plains, it takes 100 years to form one inch of soil.

When the one woman was talking about the blowing soil being dark and heavy, like face powder, the soil was probably silt.

One phenomenon of the dust storms, was their production of static electricity.

**The Cherokee Strip**

**Multiple Choice**

The land run in this area was in 1893.

The video Far and Away showed a man racing for the land on a bicycle. This actually happened.

The best known cattle trail in the Cherokee strip was the Chisholm trail.

The new occupation that started with the first cattle drive in 1865 was cowboys.

Harrison was the president who ordered the ranchers to remove all cattle from the stip to open it for settlement by eager pioneers.

The race began at high noon.

Anyone who jumped the gun was shot.

**America’s Endangered Species: Don’t Say Goodbye**

**Multiple Choice**

The greatest threat to the Manatee is speed boats.

The president who signed the Endangered Species Act in 1973 was Richard Nixon.

The black footed ferret primarily eats prairie dogs.

**True/False**

The wolf is shy and elusive.

Kill off one organism and something else suffers or is gone.

The Ivory Billed Woodpecker is not extinct.

The Bald Eagle is not on the endangered species list.

Plants are on the endangered species list.

**Gorillas in the Mist**

**Multiple Choice**

Dian wanted to talk to the old woman at the market because she had a gorilla hand ashtray.

The natives believed Dian was a witch.

Dian was upset about Digit’s murder.

When you encounter a gorilla in the wild, you must never run.

**The 1996 Pittsburgh Flood**

**True/False**

The Pittsburgh symphony barge, the Point-Counterpoint, did not sink during this flood.

**The Johnstown Flood**

**True/False**

This was not the first time that this dam failed.

A dams weakest point is in its middle.

Clara Barton, founder of the Red Cross, spent five months in Johnston after the flood.

**The Truth about Water**

**True/False**

Camden Yards collects water from the field via drainage pipes to be used in the facilities.

Water does not run quickly off a permeable surface.

Evapotranspiration is the process where water is put into the air via evaporation and transpiration.

**The Savage Garden**

**Multiple Choice**

Daddy long leg tastes, hears and smells using its front legs.

Earwig cleans each of its eggs to protect them from deadly fungus.

Aphids can reproduce asexually.

**True/False**

Gardens can’t be controlled totally by humans.

**The Living Tides of Fundy**

**Multiple Choice**

The basis of the ocean food web is diatoms.

Tissue samples are taken from Northern White Whales using a punch biopsy.

Bentic refers to the floor of a lake or ocean.

**True/False**

The bay modifies the climate.

The Northern White Whale is the most endangered species on earth.

Sessile means attached.

A weir must be replaced every year.