**Quarterly 3 Study Guide- You should know the general facts about each topic.**

**Chapter 9- Terrestrial Biodiversity**

John James Audubon, a 19th Century bird expert

Biological Extinction

A 2005 report indicates humans have disturbed what percentage of the earth’s land surface?

The continuous, low level extinction of species that has occurred since the beginning of life on earth is called

What is the estimated background extinction rate before humans, is

background extinction

mass extinction

ecological extinction

local extinction

biological extinction

endangered species

use value

non-use value

aesthetic value

ecological value

intrinsic value

Ecotourism

Biophilia

Pollinators

indicator species

*example:*

generalists

*example:*

keystone species

*example:*

invasive species

According to researchers, the greatest threat to wild species is

In terms of habitat destruction, the greatest eliminator of species is

habitat exploitation

resource partitioning

habitat fragmentation

What percentage of the world’s 10,000 bird species is declining in number?

Ecological services provided by birds

The greatest *new* threat to bird populations is

Kudzu

Know something about each

gypsy moth

zebra mussel

brown tree snake

common pigeon

invader species

DDT

Arctic warming and polar bears

For every exotic live animal captured and sold in the pet market, approximately how many others are killed or die in transit?

Positive feedback loop

Negative feedback loop

bushmeat

Poaching

CITES

The Endangered Species Act (ESA) of 1973

**Chapter 10- Sustaining Biodiversity: The ecosystem approach**

Gray wolf is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ species

 Forests, both natural and planted, occupy how much of the earth’s land surface, other than Greenland and Antarctica?

Old-growth forest

 Tree plantations

Ecological services provided by forests

Even carefully designed logging roads have harmful effects….what are they?

How can a positive feedback loop be harmful?

Clear-cutting

Surface Fire

Crown Fire

Deforestation

Selective cutting

Strip cutting

Characteristics of a boreal forest

According to the World Resources Institute, if the current rates continue, how much of the world’s remaining forests will be lost in the next two decades?

Forests cover about \_\_\_\_\_ % of the U.S. land area.

In the United States, about \_\_\_\_\_% of the forests are protected.

Brazil’s government has stated that the percentage of Amazon basin that has been deforested or degraded has increased from 1% in 1970 to \_\_\_\_\_\_\_\_\_\_ % in 2005.

Where are tropical forest found?

The Healthy Forests Restoration Act passed by Congress in 2003

Making Paper

How can we reduce tropical deforestation?

Overgrazing

grassland restoration

Which of the following is the biggest problem for U.S. national parks today?

The world’s largest system of private natural areas and wildlife sanctuaries has been created by which country

Habitat corridors

The ecosystem approach to sustaining biodiversity follows four principles.

Economic zones

Reconciliation Ecology

**Chapter 11- Sustaining Aquatic Biodiversity**

What type of problems did loss of biodiversity in Lake Victoria in East Africa?

Area of greatest marine biodiversity

HIPPCO

Areas of marine biodiversity

Coral reefs

Mangrove forests

Coastal wetlands

Ocean bottom

Rivers

The Bluefin tuna population stocks in the United States have dramatically decreased since what year?

Human input of which fertilizers, has doubled since 1860 and causes eutrophication of marine and freshwater systems?

The direct threat of climate change to marine habitat is

fishprint

sport fishing

gill netting

trawl fishing

Purse Seining

Spotter Plane

Harpooning

Long Lining

Aquaculture

Deep Sea Aquaculture

Today \_\_\_\_\_\_\_\_\_\_ of the world’s commercial fisheries are being fished at or beyond their estimated sustainable yields.

Cetaceans

Baleen Whales

Toothed Whales

Which countries have a significant whaling industry and whale meat market?

The leatherback sea turtle

By law, a country’s offshore fishing zone extends to how many miles….how many kilometers offshore?

What percentage of the world’s oceans is closed to fishing and other harmful human activities?

MSY- maximum sustained yield

OSY- optimum sustained yield

Despite their ecological value, the United States has lost more than \_\_\_\_\_ of its coastal and inland wetlands since 1900.

Comprehensive Everglades Restoration Plan