

## QUIZ #3

Share Questions + Answers (Only if 100% Sure). Discuss Questions/Answers. Remember We Get 3 Attempts So We Can Help Each Other Score 20/20 By Attempt Three!!

**Agricultural subsidies paid by industrialized nations \_\_\_\_\_.**

- A) Promote chemical dependencies
- B) inhibit change in agricultural practices
- C) discriminate against producers in less-developed countries
- D) go to the largest farmers in the wealthiest countries
- E) all of the above → someone confirm?

WHAT IS THE ANSWER TO THIS??^^^

**Which of the following is NOT an auxiliary energy flow to argo-ecosystems?**

- a) Fossil fuel input
- B) irrigation system
- C) solar input
- D) fertilizer

WHAT IS THE ANSWER TO THIS??^^^

Water diversion from Canada to the USA has been proposed for the use of what state?

Question options:

- a) North Dakota
- b) Texas
- c) **New Yor**  
Confir  
m?
- d) South Carolina

**ANYONE KNOW  
THE ANSWER  
TO THIS**

**15/20**

countries

Malnourishment is common in: south asia

Countries opposed to a resolution for water to be recognized as a basic human right: canada

The international panel on climate change predict by 2100 ocean acidity will increase by: **150%**

Green revolution is characterized by: introduction of higher yield seeds

bs

Green revolution is: global intensification of agricultural production

By 2100 nearly \_\_\_\_ of world's pop will live within 100 km of coasts: 75%

PLUARG was created to assess: pollution in the **great lakes**

PLUARG = Pollution from Land Use Activities Reference Group

Rachel carsons silent springs was associated with the problem of: biocide use

TAC = total annual catch (isnt this total allowable catches? → ye it is) okk dope. Gj nischal

**^^^ Should be Total Allowable Catch ^^^**

Oceans absorb \_\_\_\_ of anthropogenic CO2 emissions:  $\frac{1}{3}$

Soil erosion rate is affected by: wind speed, speed of surface water, amount of natural vegetation (all the above)

Declines in atlantic cod, collapse caused by: overfishing by humans

International joint commission is a: bilateral institution

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The cree were forced to stop fishing in reservoirs part of james bay project bc: high mercury in fish

Which chemical is released into water bodies in the greatest quantity in canada: ammonia

What proportion of energy given as feed to livestock is lost to belching and other gas: 20%

Great lakes quality agreement: was amended in 78, 83 and 87/ had a main objective to reduce P-loading in lake erie and ontario/ was signed in 72 b/w US and CAN (all the above)

Canadian prairie, burrowing owls declined in 70s and 80s bc: carbofuran

Deposition of salts in irrigated soils is called: **salinization**

**(Some of the following may be wrong-- so if anyone knows for sure- Ended with 14/20 so)**

Marine ecosystems provide many goods and services to humans, including \_\_\_\_: All of the above

Floodways, diversions, and dykes are types of \_\_\_\_: **preventative flood measures**

How many Canadians rely on groundwater for drinking water? 9 million

Government site confirms 9 million:

<https://www.canada.ca/en/environment-climate-change/services/water-overview/sources/groundwater.html>

Soil erosion is affected by: All of the above

An increase in global sea temperature could cause: all of the above

Which of the following is an example of a non-point source of pollution? Agricultural run off

**How many tonnes of water are required to produce 1 tonne of grain? → 1,000**

**(This is 100% right)**

- Type of environmental catastrophe is common in Palliser's Triangle  
Drought

- Global meat consumption has \_\_ since 1997  
Doubled

- since cropland cultivation began in Canada, \_\_\_\_tonnes of soil organic carbon has been lost

1 billion

- Which water management strategy aims to improve water use efficiency by challenging basic patterns of consumption.

Soft path

What is the most common soil conservation practice in Canada?

**Crop rotation**

The development of pigs that produce lower phosphorus manure is the outcome of \_\_\_\_.

**Genetic Modification**

Floodplains are \_\_\_\_.

**Level land alongside a river or lake that may be submerged by floodwaters**

A floodway is an example of \_\_\_\_.

**Structural approach to flood management.**

Which convention provided for the agreement of nations to establish exclusive economic zones?

**The UN Convention on the Law of the Sea**

Endocrine disruptors have been found:

**In commonly used products such as soap**

Canada's Ocean Strategy was one of the main requirements of \_\_\_\_.

**The Oceans Act**

Just over \_\_\_\_\_ of the ocean has been designated as protected.

**1%**

Eating at the lowest level on the agricultural food chain is beneficial because

**You maximize the amount of usable energy in the food system.**

Ploughing alters soils \_\_\_\_

**physically.**

A biocide is \_\_\_\_

**all of the above.**

Which Canadian river holds the largest volume of water?

**Mackenzie River**

About \_\_\_\_\_ of Canada is covered by lakes and rivers.

**12%**

Which Canadian river has experienced major floods in 1950, 1997, 2009, and 2011?

**The Red River**

Which fishing method has had the most negative impact on albatross populations?

**Longline fishing**

A thermocline is:

**the transition between warmer surface waters and the cooler waters underneath**

Does anyone know the reason for [the designation of the grand river as a canadian heritage river in 1994 was a landmark event](#) ???

A single Atlantic bluefin tuna fish can be worth as much as \_\_\_\_ at market in Tokyo

**\$100,000**

I got 15/20 on this quiz (not all questions are listed, only ones that were different from other questions already posted)

Mercury in reservoirs comes from:

## **Bacterial decomposition of organic material**

Monoculture crops are made up of:

### **A single species, same genetics**

When scientists have no option but to use data based on the current degraded state of an ecosystem rather than historical ecological abundance, this is called \_\_\_:

### **Shifting baseline**

Canada's ocean strategy incorporates the ideas of \_\_\_:

### **All of the above**

Water footprints track \_\_\_:

### **Direct and indirect water use by a consumer or product**

The great lakes water quality agreement \_\_\_:

**Was signed in 1972 between the US and Canada (can't be all of the above because it was only amended in 1983 and 1987) no its all the the above if you search on google i think**

Who is authorized to formally designate a river as being a Heritage river?

### **Federal and provincial/territorial governments ANY IDEAS? IT'S ALL THE ABOVE**

The SWEEP program involved many programs including \_\_\_\_\_

#### **- Reduction of phosphorus loading in Lake Erie**

Recycling plant nutrient sources and using nitrogen fixing bacteria to maximizing nutrient use efficiency is called **integrated plant nutrient systems**

Species with \_\_\_\_\_ are most susceptible to bioaccumulation **long lifespan**

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- BELOW---- feel free to fill in the answers. I don't want to give out wrong answers... lol

**\*\*highlighted questions need answers\*\***

**Marine Ecosystems provide many goods and services to humans, including \_\_\_\_\_**

- A) Provision of food and medicinal products
- B) Transportation routes to ship products
- C) Being key components in global cycles and energy flows

#### **D) All of the above**

**Oceanic productivity typically \_\_\_\_\_ with depth.**

- A) Does not change
- B) Increases
- C) Disappears

#### **D) Decreases**

**Floodways, diversions, and dykes are types of \_\_\_\_\_**

- A) Physical barriers
- B) Preventative flood measures (right answer)**
- C) Structural approaches
- D) All of the above (wrong)**

**The James Bay Project was built using the \_\_\_\_\_**

- A) Churchill River
- B) Saguenay River
- C) La Grande River**
- D) James Bay River

**The town of Walkerton, Ontario made national headlines in May 2000 because \_\_\_\_\_**

- A) The main water supply for the town dried up due to drought
- B) Escherichia coli bacteria contaminated the town's water supply system**
- C) A cryptosporidium parasite contaminated the area's groundwater
- D) Mercury contaminated the area's groundwater

**The development of higher-yielding or otherwise "improved" crops through cross-breeding of different varieties or strains is called \_\_\_\_\_**

- A) Commercialization
- B) Hybridization**
- C) Genetic Modification
- D) None of the above

**The "Green Revolution" is \_\_\_\_\_**

- A) The distribution of poverty worldwide
- B) The global intensification of agricultural production**
- C) A global environmental movement
- D) The rapid expansion of forest lands worldwide

**What proportion of the energy given as feed to livestock is lost to belching and "other gaseous contributions"?**

- A) 10%
- B) 5%
- C) 20% (yes both C and D say 20%)
- D) 20% (yes both C and D say 20%)

**Soil acidification is accelerated by \_\_\_\_\_**

- A) The use of heavy machinery on wet soils
- B) The use of biocides
- C) The application of fertilizers**
- D) The application of lime

**Canada has refused to join the worldwide moratorium on \_\_\_\_\_**

- A) Long-line fishing
- B) Shrimp farming
- C) Salmon farming
- D) Bottom trawling**

**In British Columbia, farmed salmon have \_\_\_\_\_**

- A) 7x less canthaxanthin than wild salmon
- B) 11x the amount of toxic contaminants as wild salmon**
- C) Immunity to sea lice
- D) All of the above

**Canada's Oceans Strategy incorporates the ideas of \_\_\_\_\_**

- A) Integrated management
- B) Sustainable development
- C) The precautionary approach
- D) All of the above**

**While \_\_\_\_\_ is a common practice in nature, in fisheries it leads to serial depletion**

- A) Shifting baseline**
- B) Krill foraging

- C) Overharvesting
- D) Prey switching

**Flood plains are \_\_\_\_\_**

- A) Flat areas that permanently submerged
- B) Annual deposits of silt along the banks of a river
- C) Level land alongside a river or lake that may be submerged by floodwaters**
- D) Lands flooded only as a result of hurricanes

**Water footprints track \_\_\_\_\_**

- A) Virtual water use by a consumer or product
- B) Direct and indirect water use by a consumer or product**
- C) Indirect water use by a consumer or product
- D) Direct water use by a consumer or product

**A floodway is an example of a \_\_\_\_\_**

- A) Structural approach to drought management**
- B) Non-structural approach to drought management
- C) Structural approach to flood management
- D) Non-structural approach to flood management

**Which process is responsible for releasing water vapour into the atmosphere?**

- A) Transpiration**
- B) Extirpation
- C) Precipitation
- D) Condensation

**The dominant crop in Canada is \_\_\_\_\_**

- A) Hay
- B) Wheat**
- C) Soybean
- D) None of the above

**Agriculture dates back \_\_\_\_\_ years ago**

- A) 6,000-9,000**
- B) 2,000-4,000
- C) 12,000-14,000
- D) 9,000-1,000

**Rachel Carson's 1962 book, "Silent Spring", publicized the environmental problems associated with \_\_\_\_\_**

- A) Biocide use**
- B) Soil erosion
- C) Fertilizer use
- D) Monoculture cropping

**By approximately how much will world agricultural GDP fall as a result of climate change?**

- A) 16%**
- B) 19%
- C) 11%
- D) 7%

- I think this is 11%... But 16% also sounds legit... I've read answers ranging from 10 to 15

The marshall decision was about  
Selling eels out of season

About 60% of Canada's water flows northward to Arctic and Subarctic areas in which few people live

Which of the following is NOT an auxiliary energy flow to agro-ecosystems?

- a) Solar input
- b) Fossil fuel input
- c) Fertilizer**
- d) Irrigation system

Which organism would you expect to have the highest concentration of DDT?

- a) Zooplankton
- b) Beluga whale**
- c) Atlantic salmon
- d) Algae

Countries opposed to a resolution for water to be recognized as a basic human right include?

- a) germany
- b) canada**
- c) spain
- d) all of the above

Since 1992 when the cod fishery closed, the number of commercial fishing vessels in Canada has \_\_\_\_\_

- a) Increased
- b) Remained the same
- c) Decreased**
- d) Equalled the number of subsistence fishing vessels

What is this????

Atlantic bluefin tuna are in such demand they have suffered an \_\_\_\_\_ stocks over the last 100 years

- a) 30 %
- b) 10 %
- c) 60%
- d) 80%**



Management that recognizes interconnected among aquatic, terrestrial, and other resource system is called: **d) hydrosolidarity**

which country has the highest per capita water use? **a) China**

The most productive Ocean areas are?

- a. Coastal zones
- b. Zones of upwelling
- c. Open ocean
- d. Both a and b**
- e. Both b and c

When scientists have no option but to use data based on the current degraded state of an ecosystem rather than historical ecological abundance, this is called \_\_\_\_\_

- a) Shifting baseline correct**
- b) Changing baseline
- c) Changing state
- d) Historical baseline

Which of the following is NOT an auxiliary energy flow to argo-ecosystems?

- a) Fossil fuel input
- B) irrigation system
- C) solar input
- D) fertilizer

A positive feedback loop is created when \_\_\_\_\_ ???????

- a) More CO<sub>2</sub> absorbed by ocean>more ice melting >rising sea level
- b) More ice melting> falling sea level> ocean expanding
- c) Warming atmosphere> more ice melting> less CO<sub>2</sub> absorbed by oceans> more warming**
- d) All of the above

Inuit Mothers are concerned about breastfeeding their babies cause of the health implications of ?

Grass hoppers

**POPs**

GHG

All of the above

Since 1992 when the cold fishery closed, the number of commercial fishing vessels in Canada has \_\_\_\_:  
**Decreased**

What type of environmental catastrophe is common in Palliser's Triangle? **Drought**

The designation of the grand river as a Canadian heritage river in 1994 was a landmark event because:  
**most of its lands were owned privately**

When the combined effects of chemical are greater than the sum of their individual effects. This is called:  
**synergism**

Who is authorized to formally designate a river as being a heritage river?: **all of the above**

**Decrease the plant's toxicity**

Agricultural subsidies paid by industrialized nations: **all of the above**

Food plains are: **level land alongside a river or lake that may be submerged by floodwaters**

Monoculture crops are made up of: **a single species, often with each individual having the same genetic code**

The deposition of salts in irrigated soils is called: **salinization**

Soil acidification is accelerated by: **the application of fertilizers**

**9 million** Canadians rely on groundwater for drinking water

Which of the following is not an auxiliary energy....: solar input

Oceanic waters will observe carbon is: B) the amount of carbon dioxide in the atmosphere...

Integrated pest management: both a and b

when canadian cod stocks collapsed fishers began fishing down the food chain by?? shrimp n crab

Atlantic bluefin: 80%

By 2100, nearly \_\_\_ percent of the world will live within 100 km of: 75%

How many tonnes of water is needed to produce 1 tonne of grain: 1000

Inuit mothers are concerned about breastfeeding...: POP

Which body of water has highest pollutants: a) lake ontario

A positive feedback loop is created when :

- a) More CO<sub>2</sub> absorbed by the ocean- more ice melting-rising sea level
- b) More ice-melting-falling sea level-ocean expanding
- c) **Warming atmosphere-more ice melting-less CO<sub>2</sub> absorbed by oceans – more warming**
- d) All of above

When Canadian cod stocks collapsed, fishers began ‘fishing down the food chain’ by (what is the answer for this one?)

- a) Targeting Chinook salmon
- b) **Targeting shrimp and crab**
- c) Targeting harp seals
- d) None of the above

Where is Palliser’s Triangle?

- a) **Alberta, Saskatchewan, and Manitoba**

The development of agriculture encouraged \_\_\_\_\_

- a) **Establishment of large permanent settlements**

Biofuels \_\_\_\_\_

- a) Take land away from food production
- b) Generate a fraction of the pollutants of traditional fuels
- c) Are derived from plants
- d) **All of the above**

Which Canadian river has experienced major floods in 1950, 1997, 2009, and 2011?

**The Red River**

The green revolution is characterized by \_\_\_\_

- A) Organic Farming methods
- B) Intro of higher-yield seeds
- C) Reliance on auxiliary energy flows
- D) A and B
- E) **B and C**

Warm surface water that is cooled at high latitudes and then sinks to deeper basins is part of \_\_\_\_ circulation. **Thermocline**

By 2100, nearly **75%** of the world's population will live within 100 km of coasts

**Palliser's triangle is Alberta, Sas, & manitoba**

In the canadian prairies, burrowing owls declined significantly... due to... carbofuran

**9 million Canadians rely on ground water for drinking**

Since 1992, the number of commercial fishing vessels in canada has **decreased**

What type of environmental catastrophe is common in palli... **drought**

The designation of the grand river as a canadian heritage... **most of its lands were privately owned**

When the combined effects of chemicals are greater than... **SYNERGISM**

Who is authorized to formally designate a river as being a heritage river?

- A) Federal and provin...
- B) Community mems...
- C) landowners
- D) **All**

**Floodplains are level land alongside a river or lake that may be...**

The most productive ocean areas are the coasts & upwelling

Canada's oceans strategy incorporates the ideas of

- A) Integrated...
- B) Sustainable...
- C) The precautionary...
- D) ALL**

**Eating at the lowest level on the food chain allows you to maximize...**

Just over 1% of the ocean has designated protected areas

**Monocultures are crops made up of a single species, often with...**

The deposition of salts in irrigated soils is called: **salinization**

**The origins of agriculture date back to 9000 to 11000 years ago**

Oceanic waters will absorb carbon if and when: **the amount of CO<sub>2</sub> in the atmosphere exceeds the amount of bicarbonate in the water**

Which organism has the highest concentration of DDT? **Beluga Whale**

Agricultural subsidies paid by industrialized nations \_\_\_\_\_

- A) Promote chemical depen...
- B) Inhibit change in...
- C) Discriminate against prod...
- D) Go to the largest farmers...
- E) All of the above**

Integrated pest management is

- A) Used to reduce the losses caused by diseases
- B) Used to minimize the negative impacts of pest control
- C) A process that uses different types of pests to manage crops
- D) Both A and B**
- E) Both A and C

What proportion of the energy given as feed to livestock is lost to belching and other gaseous contributions? **20%**

\_\_\_ of canada's water flows northward to the arctic where few people live: 60%

The deepest part of the ocean is \_\_\_ deep: over 9,000 metres (marianas trench)

Water ethics \_\_\_\_ : are principles to guide behaviour regarding water access

So in conclusion this was the worst quiz of all time