

Unit 9 – Sustainability & Natural Resources Twitter Review Questions

U9-1: Identify three (3) examples of renewable resources.

- Answer: Grass, air, water, natural metal elements (copper, uranium, iron)

U9-2: Fossil fuel consumption is a “norm” within the United States. Fossil fuels, such as oil, is greatly used for _____ in the U.S.

- Answer: Transportation

U9-3: Which type of mining is most dangerous to miners and why

- Answer: Subsurface (Underground) mining – Due to poor ventilation and potential of the collapse of the weight of earth material above ground

U9-4: Between reduce, reuse, and recycle, which of the following has the most SUSTAINABLE impact on available resources?

- Answer: Reduce

U9-5: What is representative of an environmentally sustainable worldview?

- Answer: Energy and resource efficiency must continually be improved to preserve resources

U9-6: Identify three (3) non-renewable resources.

- Answer: Coal, oil, fish/clams (due to overfishing)

U9-7: An ecosystem that is designated as a protected area and thus does not allow for human interaction is an example of _____.

- Answer: Preservation

U9-8: Although wind power is a good alternative energy resource, it does produce _____ pollution.

- Answer: Noise

U9-9: Identify three (3) negative impacts of mining.

- Answer: 1) Soil erosion 2) Habitat loss 3) acidification of nearby soil and water

U9-10: Passing down your gently used clothes to your younger siblings is an example of _____.

- Answer: Reuse

U9-11: Identify one (1) major drawback to aquaculture.

- Answer: Higher concentration of organic waste in water

U9-12: Identify three (3) negative impacts of deforestation.

- Answer: 1) Soil erosion 2) Loss of habitat 3) Loss of CO₂ absorbing plants

U9-13: Identify three (3) beneficial uses of geothermal energy.

- Answer: 1) Residential heating 2) Industrial heat processes 3) Electricity production

U9-14: What is one major drawback to living in urban areas?

- Answer: Much higher rates of disease transmission due to high population density

U9-15: How can a decrease in burning of fossil fuels positively impact the environment and atmosphere?

- Answer: It will decrease CO₂ emissions into the atmosphere

U9-16: The amount of land necessary to sustain a person's lifestyle (food, water, transportation, etc) is known as ____.

- Answer: Ecological Footprint

U9-17: Identify three (3) environmental impacts of oil drilling.

- Answer: 1) Groundwater contamination 2) Release of greenhouse gases from heavy machinery 3) Destruction of wildlife habitat

U9-18: A deforested area impacted from logging is "replenished" by the planting of extra trees in its place is an example of ____.

- Answer: Mitigation

U9-19: Sustainable agriculture relies heavily on ____.

- Answer: Controlling unwanted pests by using organic techniques

U9-20: Sustainable environmental practices focus on ____ resource availability.

- Answer: Immediate, short term, and long term

U9-21: Explain the process of nuclear fission and its production of energy.

- Answer: Splitting of atoms produce heat which then drive steam turbines that will produce energy

U9-22: What is clear cutting?

- Answer: Complete deforestation that reduces biodiversity and reduces amount of available oxygen, but yet is the most profitable short-term type of harvest

U9-23: The use of land and management of its resources by humans where there is little or periodic human impact/involvement is an example of environmental ____.

- Answer: Conservation

U9-24: Although nuclear energy is an efficient alternative energy resource, what is the greatest drawback of nuclear energy as a source of electricity?

- Answer: Nuclear energy produces radioactive waste that requires proper storage

U9-25: Harnessed solar energy can provide an abundance of electric power. However, what is a major drawback to solar energy?

- Answer: Cost of equipment and installation is very expensive

U9-26: Ethanol that is produced from plant or organic material is considered ____.

- Answer: Biomass (Biofuel)

U9-27: Identify three (3) problems related to aquaculture (fish farming).

- Answer: 1) Water contamination of organic waste 2) In natural waters, throws ecosystem off balance 3) Fish more prone to disease due to containment

U9-28: What is the world's most abundant, yet dirtiest fossil fuel?

- Answer: Coal

U9-29: Identify three (3) reasons as to why more people are migrating to cities.

- Answer: 1) Better education and technology 2) Greater job opportunities and variety 3) Agriculture is becoming more mechanized and therefore less jobs in rural areas

U9-30: Instead of throwing away a plastic bottle in the trash, it is processed to create newer products. This is an example of ____.

- Answer: Recycling

U9-31: Where do you expect to harness tidal power?

- Answer: At the coast

U9-32: How is hydroelectric power produced?

- Answer: Flowing water turns a turbine that spins a rotating shaft connected to a generator that then generates the electricity

U9-33: This mining process removes the top layer of land (overburden layer) to express base metals underneath.

- Answer: Strip mining

U9-34: This mining process involves removing a large quantity of earth material at the surface and therefore leaving a large opening in the earth.

- Answer: Open-pit mining

U9-35: How long does it usually take for non-renewable resources to be replenished by the Earth?

- Answer: Thousands or millions of years, or if at all