Bioremediation Quiz PDF

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Which of the following are types of biOREmediation?

- [ ] In situ
- [ ] Ex situ
- [ ] Aerobic
- [ ] Anaerobic

What is the primary goal of biOREmediation?

- ◯ To increase agricultural yield
- ◯ To detoxify and remove pollutants from the environment
- ◯ To enhance plant growth
- ◯ To generate renewable energy

Which of the following is a disadvantage of biOREmediation?

- ◯ Environmentally friendly
- ◯ Cost-effective
- ◯ May be slower than other methods
- ◯ Can be applied in various settings

Which organisms are commonly used in biOREmediation?

- [ ] Bacteria
- [ ] Fungi
- [ ] Plants
- [ ] Insects

What is the process called when plants are used to absorb pollutants from the soil?

- ◯ Biodegradation
- ◯ PhytOREmediation

- ◯ Bioaccumulation
- ◯ BioSorption

Which processes are involved in biOREmediation?

- ☐ Biodegradation
- ☐ PhytOREmediation
- ☐ Chemical oxidation
- ☐ Bioaccumulation

Which microorganism is most commonly used in biOREmediation?

- ◯ Viruses
- ◯ Algae
- ◯ Bacteria
- ◯ Protozoa

Describe how microorganisms contribute to the biodegradation process in biOREmediation.

Why might biOREmediation be preferred over chemical remediation methods in certain situations?

What are some challenges associated with biOREmediation, and how can they be addressed?

Explain the difference between in situ and ex situ biOREmediation.

Discuss the role of monitoring in the biOREmediation process and why it is important.

Which factors influence the effectiveness of biOREmediation?

- [ ] Temperature
- [ ] pH levels
- [ ] Oxygen availability
- [ ] Sunlight exposure

Which of the following is an example of in situ biOREmediation?

- ◯ CompOSTING contaminated soil off-site
- ◯ TreatING wastewater in a treatment plant
- ◯ InjectING nutrients into contaminated groundwater
- ◯ TransportING contaminated soil to a landfill

What type of contaminants are typically NOT suitable for biOREmediation?

- ◯ Heavy metals
- ◯ Organic compounds
- ◯ Non-biodegradable pollutants
- ◯ Hydrocarbons

What are some advantages of biOREmediation?

- ☐ Environmentally friendly
- ☐ Can be used for all contaminants
- ☐ Cost-effective
- ☐ Requires no monitoring

Which factor does NOT significantly affect the effectiveness of biOREmediation?

- ◯ Temperature
- ◯ Soil texture
- ◯ Oxygen levels
- ◯ Color of the contaminant

How does phytOREmediation work, and what are its benefits and limitations?

What are the common applications of biOREmediation?

- ☐ Oil spill clean-up
- ☐ Industrial waste treatment
- ☐ Enhancing crop yield
- ☐ Mining site restoration

What is the role of fungi in biOREmediation?

- ◯ To photosynthesize pollutants
- ◯ To break down complex organic compounds
- ◯ To increase soil pH
- ◯ To produce oxygen