**ПЕРЕЛІК ПИТАНЬ ДО ЗАЛІКУ/ЕКЗАМЕНУ**

**з навчальної дисципліни**

**«Іноземна мова** **фахового спрямування»**

для здобувачів вищої освіти освітнього ступеня «бакалавр»

спеціальності 101 «Екологія», освітньо-професійна програма «Екологія»

факультет педагогічних технологій та освіти впродовж життя

кафедра педагогічних технологій та мовної підготовки

Схвалено на засіданні кафедри педагогічних технологій та мовної підготовки

28 серпня 2023 р., протокол № 11

 В.о. Завідувача кафедри

 \_\_\_\_\_\_\_\_\_\_ Ірина ГАЙДАЙ

Розробник: старший викладач, Світлана СУХОВЕЦЬКА

Житомир

2023 – 2024 н.р.

1. What is the environment?
2. What is waste?
3. What is garbage?
4. What is litter?
5. What is rubbish?
6. What is trash?
7. What is air pollution?
8. What is water pollution?
9. What is soil pollution?
10. What is noise pollution?
11. What is acid rain?
12. Tell about disappearing animals.
13. Tell about the greenhouse effect.
14. Tell about the ozone hole.
15. Name the sciences which are closely related to Environmental Geology.
16. What does each of these sciences study?
17. What ecological systems of biosphere do you know?
18. What are the elements of these ecological systems?
19. Speak about the aspects Environmental Geology concerns.
20. What is the environmental impact of mining?
21. What techniques to reduce or to eliminate environmental degradation do you know?
22. Give more detailed analysis to one of the techniques.
23. Analyze the chart. Speak on the environmental hazards associated with mining.

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| --- | --- | --- |
| ***Risk*** | ***Affected compartments*** | ***Relevant toxic compounds*** |
| Overtopping of tailing dam | ground water, surface water, soil | **Water emissions*** In most cases radionuclides, mainly thorium and uranium;
* Heavy metals;
* Acids;
* Fluorides

**Air emissions:*** In most cases radionuclides, mainly thorium and uranium;
* Heavy metals
* HF, HCI, SO2, etc.
 |
| Collapse of tailing dam by poor construction | ground water, surface water, soil |
| Collapse of tailing dam by seismic event | ground water, surface water, soil |
| Pipe leakage | ground water, surface water, soil |
| Ground of tailing pond not leak-proof | ground water |
| Waste rock stockpiles exposed to rainwater | ground water, surface water, soil |
| Dusts from waste rock and tailings | air, soil |
| No site-rehabilitation after cease of mining operation | land-use, long-term contaminated land |
| Processing without flue gas filters | air, soil |
| Processing without waste water treatment | surface water |

1. Speak on the problems of education (and ecological education) in Ukraine.
2. Tell about general competencies of Bachelors in Ecology according to their qualification characteristics.
3. Tell about general competencies of Masters of Environmental studies according to their qualification characteristics.
4. What positions can Bachelors and Masters-ecologists occupy after graduation from the university?
5. What are the environmental damages of mining?
6. What are the forms of mining?
7. Speak on the environmental Risks of mining.
8. How do the risks arise and how their effects can be mitigated?
9. What is open pit mining?
10. What is underground mining?
11. What is ISL mining?
12. What is heap leaching?
13. What is brine mining?
14. Tell about radiation contamination.
15. Tell about dust and metal contamination.
16. What are the possible hydrogeological consequences after coal mines operation?
17. What water-bearing horizons (complexes) do you know? Characterize briefly each of them.

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\* Індекс структурного підрозділу відповідно до наказу ректора «Про індексацію структурних підрозділів Державного університету «Житомирська політехніка» (наприклад, 22.06).

\*\* Індекс освітньої програми відповідно до наказу ректора «Про індексацію освітніх програм Державного університету «Житомирська політехніка» (наприклад, 122.00.1/Б).

\*\*\* Шифр освітньої компоненти в освітній програмі (наприклад, ОК1).