**ПЕРЕЛІК ПИТАНЬ ДО ЗАЛІКУ/ЕКЗАМЕНУ**

**з навчальної дисципліни**

**«Іноземна мова за професійним спрямуванням»**

для здобувачів вищої освіти освітнього ступеня «бакалавр»

спеціальності 184 «Гірництво»

освітньо-професійна програма «Гірництво»

факультет педагогічних технологій та освіти впродовж життя

кафедра педагогічних технологій та мовної підготовки

Схвалено на засіданні кафедри педагогічних технологій та мовної підготовки

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 В.о. Завідувача кафедри

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Житомир

2023-2024 н.р.

1. What concentric layers of the Earth do you know?

2. What are convection currents?

3. Give short information about the tensional margins.

4. Tell a few words about the compressional boundary.

5. Changes of rocks as a nature process.

6. Main changes of rocks.

7. Types of rocks.

8. Connection between changes of rocks under certain conditions and their types.

9. Look at the list of words below and classify each word as a PRODUCT OR PROCESS of the Rock Cycle. Describe the main processes of rock cycle and types of rocks.

**PARTS OF ROCK CYCLE: PRODUCT OR PROCESS:**

Weathering

Metamorphism

Melting

Magma

Igneous Rocks

Cooling/Solidification

Sediment

Transportation/Erosion

Sedimentary Rocks

Deposition

Compaction/Cementation

Heat

Metamorphic Rocks

Lava

Eruption

Pressure

10. Name the sciences which are closely related to the Earth study. What does each of these sciences study?

11. Speak about Igneous rocks; their types. Texture and geological significance.

12. What are Sedimentary rocks?

13. Four types of sedimentary rocks.

14. What are Metamorphic rocks?

15. Foliated and Non-foliated metamorphic rocks.

16. What are mentioned above types of rocks used for?

17. Speak on the scientific theory of plate tectonics.

18. Describe main types of minerals and their properties.

19. Give the definition of the term *surveying.*

20. Speak on the functions of surveying.

21. The role of surveying in engineering and modern industry.

22. What is the main difference between *plain surveying* and *geodetic surveying*?

23. What are the functions of surveyors? What does the work of surveyor implies?

24. New technological developments in surveying.

25. The peculiarities of open-cast mining.

26. The difference between open-pit mines and quarries, borrows, placers, and strip mines.

27. Find the information about open-cast mining in Ukraine.

28. Fundamentals of underground mining.

29. Compare the methods of soft rock and hard rock underground mining.

30. Other underground mining methods.

31. What responsibilities of a mine manager do you know?

32. Explain, please, what does a manager`s typical day consist of?

33. Give short information about the tools or software a manager uses on a daily basis.

34. What is the compressional boundary?

35. Name the sciences which are closely related to Environmental Geology. 36. What does each of these sciences study?

37. What ecological systems of biosphere do you know? What are the elements of these ecological systems?

38. Speak about the aspects Environmental Geology concerns.

39. What is the environmental impact of mining?

40. What techniques to reduce or to eliminate environmental degradation do you know?

41. Give more detailed analysis to one of the techniques.

42. Analyze the chart .Speak on the environmental hazards associated with mining.

|  |  |  |
| --- | --- | --- |
| ***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 |

43. Describe briefly each of the forms of mining.

44. Speak on the: Environmental Risks of mining and how they arise.

45. How can the effects of mining be mitigated?

46. Discuss the advantages of mining professions.

47. Make up 8-10 sentences about mine surveyors' jobs in Ukraine and in your region in particular.

48. Make up a dialogue about the challenges of your future profession.

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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).