

Earth Resources Management

Integrated subject ERM_BC.

Circle of questions 2024/25

1. Traditional energy sources - business and trade - coal

- a. coal deposits and reserves
- b. consumers and coal consumption
- c. Coal trading and prices
- d. coal extraction technologies - overview

2. Traditional energy sources - business and trade - oil and gas

- a. oil and gas deposits and reserves
- b. consumers and consumption of oil and gas
- c. trading and prices of oil, natural gas
- d. oil and gas extraction technologies - overview

3. Characteristics of mining enterprises in the Slovak Republic

- a. Definition of enterprises by legal form, size with regard to mining enterprises
- b. property and capital construction of enterprises
- c. Characteristics of production factors of industrial enterprises in the Slovak Republic
- d. Characteristics of specifics of entrepreneurship in the national economy of the Slovak Republic

4. Characteristics of mineral raw materials in the national economy of the Slovak Republic

- a. mineral resources and classification of NS deposits
- b. stocks of NS on the territory of the Slovak Republic
- c. the position of the NS in the national economy of the Slovak Republic
- d. import, export, trade balance with NS

5. Surface mining methods

- a. characteristics of the extraction methods - cyclic and continuous methods
- b. the use of mining methods - opening, uncovering, processing
- c. quarrying machinery and equipment
- d. impacts of the use of methods on the quality of the environment

6. Mineral investment and valuation

- a. the meaning of the UN classification of NS stocks
- b. feasibility studies - expert study, prefeasibility study, feasibility study
- c. Mining investment analysis, its basic levels of project analysis and economic decision-making tools
- d. economic variables of the project - CF, NPV, Payback period, IRR

7. Characteristics of macroeconomic indicators in the Slovak economy

- a. characteristics and evolution of GDP and GNP
- b. characteristics and development of registered unemployment , registered employment
- c. market characteristics and production factors
- d. characteristics and development of SMEs in the Slovak economy

8. The life cycle of a mining enterprise

- a. Establishment - legislation, investments, assets, staffing, market analysis
- b. growth and stabilization - market research, sales promotion methods, sales tools, possible risks, assessment of financial health, market position, market position maintenance, product, finance, assets, assessment of economic efficiency, prediction of future development
- c. Stabilization -Crisis, decline, decline - reasons, causes, solutions
- d. consolidation or dissolution - object and form of dissolution, possibilities of consolidation

9. Management of a mining enterprise

- a. levels of management of the mining enterprise, organizational relations
- b. characteristics of management activities (organising, directing, planning, controlling, motivating)
- c. the decision-making process
- d. organisational structure

10. Impact of NS mining and processing on the environment in Slovakia

- a. mining and processing technologies and their impact on the environment
- b. heavy metals, their impact on the quality of the environment and human health
- c. legislative aspects of the impact of mining
- d. economic aspects of the impact of mining

11. Analysis of the management of a mining enterprise

- a. efficiency and productivity of the enterprise
- b. selected indicators of financial analysis - liquidity, profitability, indebtedness, activity
- c. characteristics of the result of the mining enterprise
- d. environmental costs, their potential for reduction and their impact on the economic outturn

12. Environmental aspects of the earth resources business

- a. General characteristics of the DPSIR chain
- b. environmentally responsible business conduct
- c. Principles and principles for the sustainable use of the earth's resources
- d. strategic documents and basic regulations of environmental law at the level of the Slovak Republic and the EU

13. Marketing of mineral raw materials

- a. marketing environment - micro and macro environment
- b. essence and objectives of marketing strategy -business portfolio strategy
- c. measurement of current market demand, forecast of future market demand
- d. pricing and sales promotion