

Question 1

Give examples of geological factors that can effect economic beneficiation of ore bodies. Try to give (list) examptes opf microscale properties to megascale.

Question 2

1. Metallogenic provinces and epochs. What are they?

Why are they important for countries counties like S-Africa, Canada, Australia, Sweden and Finland?

2. What are carrier metals?

3 What critical raw materials? Why are they critical?

Question 3

Give examples of Ni-ore types and their ore minerals. Explain shortly how their origin is related to ultramafic rocks.

What kind of geological processes can concentrate Ni to economic levels.

Question 4

Describe the globally important ore types used today for production of copper, the geological origin of the ores, geological association and host rocks, main minerals and common by products.

Question 5

- a. Why liquid immiscibility is an important process as far as Ni-sulphide ores are concerned?
- b. What is supergene enrichment and why it can be economically significant factor.
- c. Explain/define shortly what is geometallurgy