

CHEM-E6165 UNIT PROCESSES IN PYROMETALLURGY

ONLINE-EXAM

MONDAY 28.2.2022,

09:00-13:00

The use of course material in the exam is allowed.

Name:

Student no.

Questions (Write your answer below the questions)

1. Describe transport phenomena and their role/function in pyrometallurgical unit processes.

2. Explain the different roles of slags in pyrometallurgical unit processes.

3. What are the main sources of metal losses in Pyrometallurgical processes (unit processes/ operations involving molten phases)? Which material properties are in the key role, and what is that role (i.e. explain how the most important material properties affect the metal losses)?

4. Describe the aspects you should consider when planning/performing experiments using thermogravimetric analysis and the information that can be obtained from such studies.

5. Inclusions in steelmaking: their origin and removal from steel in different unit processes?