CHEM-E6165 UNIT PROCESSES IN PYROMETALLURGY

On	LINE-EXAM 7.4.2020, 09:00-13:00	
The use of course material, also in electronic form, in the exam is allowed.		
Name:		
Stu	Student no.	
<u>Qu</u>	estions (Write your answer below the question)	
1.	What kinds of roles or tasks do gases (as an input material) have in pyrometallurgical unit processes?	
2.	How can the very last percentages or ppm's of impurities be removed or alloying elements content adjusted in metals before casting and/or electrowinning.	
3.	How does chemical reactions take place across slag – metal/matte interfaces? What are the forces and material properties governing those interactions and rates of reactions?	
4.	What aspects you should consider and why when planning/performing experiments using thermal analysis techniques?	
5.	If you should select/design a unit process for endothermic gas-solid reaction (e.g. roasting) and exothermic gas-solid reaction, what aspects you should consider and take into account?	