CM1 theoretical questions for revision

The state and the environment of the construction site.

- 1. What type of information is needed about the construction site? (List at least 10)
- 2. Why do we have to gather information of the adjacent building? What information do we need?

Types of foundations.

- 3. How is a slurry wall created? (in writing and sketches the steps of construction)
- 4. Introduce the different technologies of cast-in-place piles (in writing and sketches, some properties), and write the steps of constructing the pile foundation (any technology).

Construction equipment. Material supply.

- 5. Introduce the types of cranes (in writing and sketches properties, advantages, disadvantages)
- 6. Introduce the different types of excavators (in writing and sketches use, properties, advantages, disadvantages)

Basics of scheduling.

- 7. What are the steps of making a schedule?
- 8. List the types of schedule representations, write the advantages and disadvantages.

Site organization

- 9. Describe the purpose of the construction site plan (why engineers spend time to find the best solution)!
- 10. What kind of construction site drawings exist and what is the function of each? Make a list of things that must be marked at a general construction site drawing!
- 11. What kind of construction site drawings exist and what is the function of each? Make a list of things that must be marked at a construction site map!

Phases and participants of the construction process (roles and responsibilities)

- 12. Draw a typical connection network for a moderate office building! Introduce the main participants! What are their responsibility?
- 13. What kind of educated personnel is required in the different phases of the construction project? Describe their activities!

Technical preparation and controlling of the construction. Contracting process.

- 14. Describe the procedures of the preconstruction period!
- 15. Introduce the different levels of construction standards!

Building according to the plans. Supervision of the construction. Handover of the building.

- 16. What kind of data and criteria have to be defined by the construction documentation (drawings and written parts)?
- 17. What are the steps of a usual handover procedure? What kind of handover procedures are known?

Technologies of the construction project. Aspects of selecting technologies. Time-sequence of the construction process.

- 18. Introduce the different formwork systems used in case of monolithic reinforced concrete structures (vertical structures, horizontal structures, special cases)!
- 19. What is a construction activity? How has time sequence to be made for construction activities?