

M5X01869 – Civil Engineering Technology 2 – Exam Preparation Guidance

General Remarks:

- Exam is 2 hours in duration.
- There are two parts to the question paper – Parts A and B.
- Section A has one question. This should be answered by all candidates. This question carries 34 marks.
- Section B has 3 questions. Answer any 2 of these questions. Each question carries 33 marks.

Answering Techniques:

- Please do not leave blank answer scripts. Even if you are not sure what the question is asking, write everything you know about the subject matter.
- Think about your site experiences (if you have any) and try to discuss these as you answer.
- In short, its always better to write something within the subject matter, even if not directly related to the questions.

Subject Matter:

- We discussed about soils, and properties as the very first lecture. I consider this section of our subject to be an essential component of any civil engineering project. We concentrated on aspects such as; types of soils available, their relative particle sizes and how they affect various construction situations. We also discussed about various engineering properties associated with soils. Finally, we discussed different soil models available for us to analyse their engineering properties and concentrated on the “unit solid volume model” as the most commonly used.
- We discussed about tunnelling in class, emphasising on the traditional as well as more advanced methods used in the industry. We discussed at length the terminology used in traditional methods of tunnelling and explained what they mean. We then compared these traditional methods to more advanced techniques like tunnel boring machines.
- We also discussed hydraulic structures and identified why such structures are required and where. We understood, by drawing independently in class, the different types of dam structures and how they work and identified the different components and their functions.
- Juan then looked at Highway structures. And I understand that he discussed the two types of pavements available: flexible and rigid. And he also explained the different machinery involved in the construction of highway structures and the types of pavement failures and joining needed to prevent failure.
- This is a general summary of all what we studied for civil engineering technology 2 this year.

I hope you will be able to revise the notes that I handed out in class and emailed to you, together with the notes you took during the classes. Juan’s notes are on moodle.

I wish you all the best at the exam.

Keerthi.