

Student Name:

Student ID:

CHEM-E0115 - Planning and Execution of a Biorefinery Investment Project

You can respond in the exam document to the space after the question with a computer or you may write your answer in paper and take photos of the answers and return those, clearly mark your name, student ID and the question number in each photo. Max 25 points. Each question is max 5 points. Exam needs to be returned by 13:00 despite of the starting time. Exam lasts up to 2h 15min and can be started any time after 10:00.

1 Explain briefly

Desk expediting

Claim

EPCM

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Factory Acceptance Test (FAT)

Open Book (OB)

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2 Project development

What kind of phases are there in an industrial plant project life cycle from concept to a ready and operating plant? How accurate are the cost estimates given in different stages and why?

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3 Project controls: Time management

Describe the scheduling process of a project. Give one example on every step of the process linking it to some real life scenario during the project life cycle.

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4 HSE

List 5 different safety analysis methods and describe them in short (one or two paragraphs).

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5 Engineering

List five (5) engineering disciplines and give two (2) examples of the responsibilities in an investment project related to each of them.