

Name.....Student I.D.....

Department of Mining and Materials Engineering
Faculty of Engineering
Prince of Songkla University

Mid-term Exam for Semester: 1

Academic Year: 2010

Date: August 8, 2010

Time: 9.00-12.00

Subject: 237-502 Adv. Mat. Proc. and Mat. Selection Room: S203

Instructions

1. There are 4 problem sets. Please do all of them. Write your answers in the space provided.
2. Textbook and course notes are not allowed.
3. Dictionary and calculator are allowed.
4. This mid-term exam is accounted for 25 % of total grade of this course.

Asst. Prof. Dr. Thawatchai Plookphol

Problem No.	Full Score (points)	Student's Score (points)
1.	25	
2.	25	
3.	25	
4.	25	
Total	100	

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Problem 1 Explain the following terms:

1.1 Conceptual design (5 points)

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1.2 Material index, M (5 points)

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1.3 Materials selection chart (5 points)

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1.4 Trade-off plot (5 points)

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1.5 Penalty function (5 points)

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