

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

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

Mid-term Examination for Semester: 2

Academic Year: 2007

Date: December 25, 2007

Time: 9.00-12.00

Subject: 237-508 Structures and Mechanical Properties of Materials

Room: A400

Instructions

1. There are 4 problem sets. Please do all of them. Write your answers in the space provided. If you need more space, you can write on the back of paper.
2. Only one (1) piece of A4-size note is allowed. You may write on both sides of the note. Please return it with your answers.
3. Dictionary, calculator, and stationery are also allowed.
4. Text books and other studying materials are not allowed.
5. This mid-term exam is counted for 30% of the total grade.

Asst. Prof. Dr. Thawatchai Plookphol

Problem No.	Full Score (points)	Student's Score (points)
1.	10	
2.	10	
3.	20	
4.	30	
Total	70	

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1. For a continuum solid material, explain the following terms in brief:

1.1 Homogenous (2 points)

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1.2 Isotropic (2 points)

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1.3 Anisotropic (2 points)

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1.4 Linear Elastic (2 points)

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1.5 Non-linear Elastic (2 points)

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