



**UNIVERSITI KUALA LUMPUR  
Malaysia France Institute**

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**FINAL EXAMINATION  
JANUARY 2011 SESSION**

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**SUBJECT CODE : FGB 41103**  
**SUBJECT TITLE : ADVANCED MANUFACTURING TECHNOLOGY**  
**LEVEL : BACHELOR**  
**TIME / DURATION : 3.00pm – 5.30pm  
(2.5 HOURS)**  
**DATE : 13 MAY 2011**

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**INSTRUCTIONS TO CANDIDATES**

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1. Please read the instructions given in the question paper **CAREFULLY**.
2. This question paper is printed on both sides of the paper.
3. Please write your answers on the answer booklet provided.
4. Answers should be written in blue or black ink except for sketching, graphic and illustration.
5. This question paper consists of **TWO (2)** sections. Section A and B. Answer **ALL** questions in Section A. For Section B, answer three (3) questions only.
6. Answer all questions in English.

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**THERE ARE 5 PAGES OF QUESTIONS, EXCLUDING THIS PAGE.**

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## SECTION A (Total: 40 marks)

**INSTRUCTION: Answer ALL questions.**  
**Please use the answer booklet provided.**

**Question 1**

Concurrent Engineering (CE) is a systematic approach to the integrated, concurrent design of products and their related processes, including manufacturing and support.

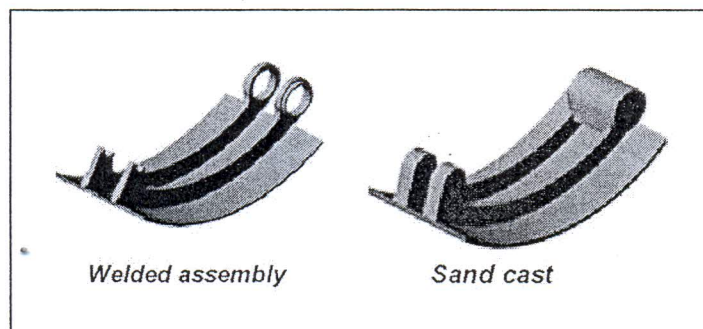


Figure 1

- (a) Figure 1 shows two kinds of processes to produce brake shoes. Which process is more economical? Explain 3 categories of factors to support your answer. (6 marks)
- (b) The success of CE activities is supported by enabling technologies such as CAE. Base on your understanding explain 3 reasons why CAE is important in CE. (6 marks)
- (c) Explain 2 differences between recycle and remanufacturing? (3 marks)

