First Exam, second Semester: 2009/2010
Computer Engineering Department

Course Title: Reverse Engineering	**Date: 11/04/2010**
Course No: 630307/610307/650307	**Time: 1 hour**
Lecturer: Dr. Mohammed Bani Younis	**No. of pages: 3**

Question 1:   *(10 marks)*

1) Mention the three steps of Modern Product development Process. (3 marks)

2) Mention the Product Development Process for the following examples: (2 marks)
   1) Xerox Corporation:
   2) Design EDGE, Austin:
   3) Microsoft Corporation:
   4) Ford Motor Company:

3) Explain how Subtract-and-Operate method works? (3 marks)

4) Explain why Benchmarking is a pervasive activity? (2 marks)

Question 2:　　　　　　　　　　　　　　　　　　　　*(20 marks)*

Consider the centrifugal pump below and answer parts a→ d.

a) Explain the steps you would take to Reverse Engineer this system. (5 marks)

b) Draw its black box model showing its inputs and outputs. (5 marks)

c) Draw the grey box of the system. (5 marks)

d) What is the BOM for this system. (5 marks)

Best of Luck