Seat No
King Mongkeut's University of Technology Thomburi
Final Examination
1st/2010 Semester
Course: CPE 452(3)/Acoustics of Musical Instrument and PA systems For: CPE Students (3rd and 4th years _ class A - D) Date: Tuesday 5 th October 2010
Time: 9.00 a.m 12.00 a.m.
Instruction: 1. Closed-Book Examination 2. A calculator is allowed. 3. A seformula Ruler is allowed. 4. There are 4 problems in 7 mages.
4. There are 4 problems in 7 pages. 5. Do all problems in these sheets.
5. Do all problems in these sheets. Student Name: (capital letter)
Student Name: (capital letter)
Student Name: (capital letter) Student ID No.: Problem 1 (15 marks)
Student Name: (capital letter) Student ID No.: Problem 1 (15 marks) Problem 2 (15 marks)
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Student Name: (capital letter) Student ID No.: Problem 1 (15 marks) Problem 2 (15 marks)

Assoc. Prof. Boonruk Chipipop Designer .1) a. What is resonace?

(3 marks)

1) b. What is vibration sensitivity?

(3 marks)

1)'c. What is Helmholtz resonator? (3 marks)

1) d. What are node and anti-node of a vibrating string?

(3 marks)

1) e. What are node and anti-node of a ribrating plate?
(3 marks)

2) Show vibration modes of string and body (plate) of the violin at 44 Hz, 66 Hz and 83 Hz. (15 marks)

3) What do you know about analog and Page b digital mixer? (10 marks) (Explain as much as you know.)

4) What do you know about Driverach? Page 7 (Explain as much as you know.)