Name	ID Code
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PRINCE OF SONGKLA UNIVERSITY FACULTY OF ENGINEERING

Midterm Examination : Semester II Academic Year: 2006

Date: 23 December 2006 Time: 18.00-21.00

Subject: 228-541 Industrial Pollution Control Room: A203

Instructions

- Please select and do the questions for total score 100 points

Please use more space of paper behind each question

All of documents and books are allowed for this subject

- Please fill your ID number or name in available space as mentioned

Score results

No	Full score	Point received
1	20	
2	20	
3	40	
4	40	
5	20	

Asst.Prof.Dr. Porntip Sridang

(ผู้ออกข้อสอบ)

ทุจริตในการสอบ โทษขั้นต่ำ คือ พักการเรียน 1 ภาคการศึกษา และปรับตกในรายวิชาที่ทุจริต

Name	ID Code

1. (20 points) Please identify the main problems occur and its affect to water quality in water bodies of Thailand. If supposes that you are a key person who is responsible in policy and technical concerning to solve this problem, how do you make a plan or action to be taken?

Name ID	Code
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2. (20 points) If you are the new CEO of one industry, which have to improve under the concept of pollution prevention by using CT. What are the procedures and protocols to be taken in action? And give one example of aspect using CT concept in the industry.

Name	. ID Code
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3. (40 points) Pig farming is a point source of agriculture pollution. It contains a large part of organic fractions (suspended solids and soluble fraction) and high nitrogen compounds. Please give your ideas-reasons and recommendations of the possibility model or option of treatment plant (units and process selected) for wastewater discharged from such farming activities.

Name	ID Code	

4. (40 points) If you are a professional operator who have to operate two wastewater treatment plants, the first one is anaerobic digester for treating palm oil mill effluent and the second one is activated sludge process for treating effluent from the first one, how do you set the working program for operating conditions, system controls and parameter analysis to evaluate the performance of systems?

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5. (20 points) From the secondary data of air quality situation in Thailand monitored by Pollution Control Department, what are the major air pollutants and sources of air pollution problem? And Why? Please give your ideas and suggestions to solve this problem too.