Name	ID no
PRINCE OF SONGKLA UNIV	VERSITY
FACULTY OF ENGINEE	RING
Final Examination: Semester 2	Academic Year : 2006
Date: 19 February 2007	Time: 09.00-12.00
Subject: 226-318 INDUSTRIAL CERAMICS	Room: A203

ทุจริตในการสอบโทษขั้นต่ำ คือ ปรับตกในรายวิชาที่ทุจริต และพักการเรียน 1 ภาคการศึกษา

Instruction:

- 1. Do all of 21 questions
- 2. The score appears at the end of each question.
- 3. Total score is 100.
- 4. Notes, books and calculator are allowed.
- 5. Don't ask.
- 6. Put your ID no. and name on every pages.
- 7. Put your answers on the question pages.

Assf.Prof.Sane Thanthadalug



NameID no
1. What is ceramic material? (4)
2. How many types of chemical reaction occur during glost firing? What are they? (4)
3. Why is clay very important for ceramic industry? (4)
4. Tell me the difference between HIP and hot pressing? (4)
5. Tell me 2 non-oxide ceramics which are mostly used. (4)
6. What do you know about calcium sulphate hemihydrate? (4)
7. Why are lead and boron compounds useful for ceramic industry? (4)
8. How should metal of ceramic machinery part be? (4)



NameID no
9. How is refractory brick shaped? (4)
10. How is constructional brick shaped in mass production? (4)
11. How is constructional brick dried? (4)
12. Why have the high clay mixture to be deaired before shaping? (4)
13. What do you pour into plaster mold for shaping ceramic body? (4)
14. How do you find true density of ceramic piece? (4)
15. How do you test the acid resistance of ceramic glaze? (4)
16. How do you find refractoriness of ceramics? (4)
Son

21. What is slip? (4)

Name	ID no
17. Why is ballclay more plastic that	an white clay? (4)
18. There are 3 methods which What are they? (4)	highly plastic body could be shaped.
19. Given true density of a firebrid and bulk density = 2.05 g./cc. Find	ck = 2.95 g./cc., apparent porosity = 25% the sealed porosity. (12)
20. Given apparent density of a brand apparent volume = 1502 cc. Fin	ick = 2.73 g./cc., bulk volume = 2000 cc, nd the bulk density. (12)
21. What is slip? (4)	

