系所組別:口腔醫學研究所丙組	
考試科目:普通化學考試科目:普通化學]期:0212,節次:3
第1頁,共1頁	
※考生請注意:本試題不可使用計算機。 請於答案卷(卡)作答,於本試題紙上作答	5者,不予計分。
1. What is a spontaneous process? Give three examples of spontaneous process. Give	
three examples of nonspontaneous process.	(10%)
2. State the second law of thermodynamics.	(10%)
3. Explain why calcium sulfate is less soluble in sodium sulfate solution than in pure water. (10%)	
4. What is a fuel cell? Describe an example.	(10%)
5. Explain why evaporation leads to cooling of the liquid.	、 (10%)
6. Describe the bonding in O_3 , using molecular orbital theory. Compare	e this with the
resonance description.	(10%)
7. Distinguish between an anodic and basic oxide. Give examples of each.	(10%)
8. Define an exothermic reaction and endothermic reaction. Give an ex	ample of each.
(10%)	
9. Why must oxidation and reduction occur together in a reaction?	(10%)
10. What is the difference between a molecular formula and a structural for	mula? (10%)

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