編號:91 國立成功大學 107 學年度碩士班招生考試	武試題
系 所:資源工程學系	
考試科日·熱刀學 第1頁,共1頁	考試日期:0205,節次:2
※考生請注意:本試題不可使用計算機。請於答案卷(卡)作答,於本語	試題紙上作答者,不予計分。
每題5分,共20題	
答案請精簡,儘量以公式表達。公式中之每一符號須清楚定義。 	
(2) What is ideal solution ?	
(3) What is regular solution ?	
(4) What is compression factor ?	
(5) What is Boyle temperature ?	
(6) What is the condition for $df = g(x,y)dx + h(x,y)dy$ being exact ?	
(7) What is ($C_p - C_v$) for a perfect gas ?	
(8) What is Kirchhoff's law ?	
(9) Please define internal pressure.	
(10) Please define Jouel-Thomson coefficient.	
(11) Express the efficiency of a Carnot engine using T_c and T_h .	
(12) What is Clausius inequality ?	
(13) What is ΔS for the expansion of ideal gas from V _i to V _f ?	
(14) What is Nernst heat theorem ?	
(15) What is Helmholtz energy ?	
(16) What is the relationship between ΔG and ΔG^{0} ?	
(17) Write the equation for the value of equilibrium constant at differen	it temperatures.
(18) Express dG in terms of change in P and V for a closed system.	
(19) What is Gibbs-Helmholtz equation ?	
(20) What is Clapeyron equation ?	
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