

國立彰化師範大學103學年度碩士班招生考試試題

系所： 車輛科技研究所

選考 6

科目： 熱力學

☆☆請在答案紙上作答☆☆

共 1 頁，第 1 頁

1. Give the definitions of follow (40%)

- (1) Saturation state
- (2) Critical pressure
- (3) Triple point
- (4) Equation of state
- (5) Dryness fraction
- (6) Isentropic exponent
- (7) Thermal efficiency
- (8) Subcooled liquid

2. Please explain the four-stroke otto engine operations with TS and PV diagrams. (20%)

3. Please describe the Stirling cycle with PV diagram. (20%)

4. Please explain with an example of the reversible process and the irreversible process in thermodynamics. (20%)