

# 國立虎尾科技大學 108 學年度第一學期博士班資格考試題

系別：動力機械工程系機械與機電工程博士班

第 1 頁 共 1 頁

科目：機械製造

注意事項：

- (1) 本試題共有 5 題，每題 20 分，合計一百分。
- (2) 請依序作答於答案卷上並註明題號，若未註明選答題號及超過規定題數時，謹採計作答順序較前之題目計分。
- (3) 禁止使用計算機/close book

1. Explain the processing steps and uses of metal injection molding will be described?
2. Explain the principle, advantages and disadvantages of electrical discharge machining?
3. Explain the effects of hot forging, cold forging and warm forging on the shape and material properties of the product?
4. What is the purpose of case hardening? Explain the processing steps of case hardening?
5. Please draw and explain the principles of flat rolling processing?