

國立雲林科技大學資訊管理系
108 學年度第 1 學期博士班資格考
科目：管理計量方法

(Quantitative Methods for Management)

時間：4 hours (Closed book)

Please pay attention to the proportion of each question, and clearly mark the question number

Part A: 50%

1. In multivariate statistics, the multiple regression, logistic regression, and structure equation modelling have some differences and similarities. Please write out their differences and assumption in detail.10%
2. What is Discriminant Analysis? What situation can be used this method (such as dependent and independent variables). What is assumptions of Discriminant Analysis? 10%
3. What is the difference between ANOVA and MANOVA? Why use MANOVA? 20%
4. What is exploratory factor analysis and confirmatory factor analysis? 10%

Part B 50%

Journal paper (Title: Role of big data management in enhancing big data decision-making capability and quality among Chinese firms: A dynamic capabilities view)

Please read the attached journal paper and answer the questions.

- (a) What is the motivations and objectives of this paper? 10%
- (b) Please find the advantages and disadvantages in this attached journal paper. 10%
- (c) Please complete explain the meaning of Path analysis in Fig. 2. You must consider all variables, dimension, and model's implications. 20%
- (d) If you do this work, how to improve this paper? 10%