- 1. (20%)名詞解釋
 - (a) Seamless Transportation (b) Centralized Traffic Control
 - (c) Copenhagen Accord
 - (d) Third Party Logistics (3PL)
 - (e) WiMax
- (10%) 請說明航空事業之經營模式有那幾種?請比較其優缺點及其限制條件,並舉例說明。
 (10%) 何謂軟運之異業垂直整合(certical integration)與同業水平合作(horizontal cooporation)之業
 - 略聯盟? 試分析兩者的差異與優缺點。
- 4. (10%) 運輸業之定價方法有那幾種? 請舉例說明並比較其優缺點。
- 5. (15%) 大眾運輸系統監督與評鑑
 - (a) 我國對大眾運輸系統之監督機構與其所管制之內容為何?
- (b) 大眾運輸系統應如何進行評鑑?其評鑑之內容應該考慮那些指標。
- 6. (15%) 臺灣高鐵的原預測運量為每日 23.1 萬人次·預測營收全年為 827 億元·2008 年實際營 運為每日 8.5 萬人次,實際營收全年為 230 億元。
- 连两年日 6.3 两人次,真常曾收至牛两 230 18 儿。
 - (a) 請試說明預測與實際運量數字差異可能的原因為何?
 - (b) 請提出未來推動公共建設 BOT 案的建議。

(背面仍有題目,請繼續作答)

編號: 312 國立成功大學九十九學年度碩士班招生考試試類

系所組別: 交通管理科學系甲組

考試科目: 運輸學 _{考試日期: 0306・節次: 3}

共 フ百・第2日

※ 考生請注意:本試題 ☑可 □不可 使用計算機

direction of the link may be approximated by

7. (20%) 公車専用道

A 12-kilometer expressway connects two urban areas. The supply function for each of the tree lanes per

$$t = 20 + q/200$$

where t is the travel time in minutes and q the flow per lane in passenger car units (PCU) per hour. The road is normally used by cars and express buses (non-stop) only; the corresponding vehicle travel times are t_e and t_b . The bus service has a peak-hour frequency of one bus per minute. The demand function

$$V_{-} = 3480 - 60 t_{-}$$

for car travel has been estimated to be-

Where V_c is the total car flow per hour and direction. In a similar way, the demand function for bus trips is:

$$V_h = 4200 - 75 t_h$$

Where V_b is the number of passengers per hour and direction. You may assume that both t_c and t_b can be calculated from the above supply functions and that a bus is equivalent to 2 PCUs.

- (a) What is the initial equilibrium state? If a bus has 60 seats, what is their load factor (occupancy divided by capacity)?
- (b) One of the lanes is now taken for exclusive use by buses. What is the new equilibrium state and the