國立嘉義大學九十三學年度

運輸與物流工程研究所碩士班招生考試(運輸組)試題

科目:運輸工程

- Discuss the importance of transportation in an integrated logistics. (25%)
- The u-k relationship for a particular freeway lane was found to be $u + 2.6 = 0.001(k 240)^2$

Given that the speed is km/h and the concentration is in veh/km, find the free-flow speed, the jam concentration, the lane capacity, and the speed at capacity. (25%)

- Select one topic from each of the following subject area which you consider to be suitable for thesis research. Justify each selection briefly. (25%)
 Prepare an outline of research proposals for any one of the topics.
 - 1. Intersection control
 - 2. Urban freight movement
 - 3. Technological innovation in transportation
 - 4. Travel demand modeling for new services
 - 5. Supply chain network design
- 四、Discuss the need for Transportation Systems Management (TSM). What different strategies can be considered in TSM? Please give an example for each strategy. (25%)