INTERNATIONAL DIPLOMA IN LOGISTICS AND TRANSPORT

TRANSPORT PLANNING DIP04

November 2021

Instructions to Candidates

- *Duration of examination:3 hours*

- *Answer five questions*

- *Questions may be answered in any order*

Credit will be given for citing relevant examples

1. a)Explain the process of Transport planning forecasting **(12 Marks**)

b) How can transport forecasting be described when it involves the following?

i) Identifying outcomes and inputs **(2 Marks)**

ii) Modelling **(2 Marks)**

iii) Projecting inputs **(2 Marks)**

iv) Forecasting the outcomes **(2 Marks)**

2. Peak demand is particularly bad in transport. Evaluate various reasons why the problem is particularly bad and give appropriate examples. **(20 Marks)**

3. i) Explain the most critical issues to be addressed when designing an interchange facility **(6 Marks)**

ii) What are the main facilities and concerns that passengers encounter in assessing and using an interchange? (**6 Marks)**

iii) Identify and describe the steps that can be undertaken to ensure that an interchange design is able to meet the needs of transport operator, vehicles and passengers **(8 Marks)**

4. 'Demand patterns in transport can be influenced by operators'. How can peak demand be affected by changes in social habits, changes in competitors service on price and changes in population distribution **(20 Marks)**

5. A road may have varied physical characteristics that affect speed, capacity and safety. Discuss the formal control measures. **(20 Marks)**

6. Discuss the measures that could be considered in order to alleviate the congestion problems, both now and in the future **(20 Marks)**