

本試題是否可以使用計算機： 可使用， 不可使用（請命題老師勾選）

考試日期：0302，節次：2

1. (20%) 名詞解釋
 - (a) Kyoto Protocol
 - (b) Communication, Navigation, Surveillance/Air Traffic Management (CNS/ATM)
 - (c) FOB (Free On Board)
 - (d) TOD (Transit Oriented Development)
 - (e) Sustainable Transportation

2. (10%) 空中交通管制可劃分為三部分 (area control, terminal approach control, tower control)，請說明各部分的性質與服務範圍。

3. (10%) 大眾運輸系統可以根據不同的特性來加以分類，試以路權(Right-of-Way)與服務型態(Type of Service)來分類，並以國內現有大眾運輸系統為例說明。

4. (10%) 請說明運輸補貼的方式有那幾種？並舉例說明其優缺點。

5. (10%) 請歸納說明目前自行車(腳踏車)使用的問題，如何規劃自行車(腳踏車)的使用？請提出你的構想。

6. (10%) 在臺灣高鐵的通車衝擊下，其他中長程運具(航空、客運、台鐵)應如何改善來加強競爭力？

7. (15%) 請根據下列課題說明公車動態資訊系統
 - a. 公車動態資訊系統的架構。
 - b. 請舉例說明臺灣公車動態資訊系統的實施與成效。

(背面仍有題目,請繼續作答)

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8. (15%) An internationally prominent transportation system analyst, Dr. X, is often called upon to describe a major transportation systems modeling effort in which he was involved several years ago. This effort involved the development of a large-scale transportation systems model and the use of model to analyze a number of alternative transport investment programs. After this quite illuminating and entertaining lecture the question is usually asked: "Where the results of this elaborate modeling and analysis effort used?"

His answer goes like this: "During the development of the model and the analysis of the transport alternatives, we met quite frequently with the minister of transport for whom we were doing this study. The minister was professionally trained and asked many pointed, intelligent, and constructive questions throughout the process. At the end of the project we summarized the models, the analysis, and the recommendations in our final report to the minister."

He continues: "The minister keeps this report in his desk. When a transport project is proposed which he supports and which was supported by our analysis, he pulls out our report, waves it in the air, and says that Dr. X and his team recommended. When a project is proposed which he opposes but which we supported (or which he supports but our analysis opposed), he leaves the report in his desk and doesn't say anything about the study."

Discuss the ethical (倫理的,道德的) implication of this situation.