CEE123/223 Transportation Systems III: Planning & Forecasting

Quiz 1. Solutions

Transportation Planning Process
Transportation Systems Analysis
Demand, Performance, Equilibration
Link Performance Functions
Minimum Paths

Spring 2024

CEE123 Quiz 1 Transport Problems

1. Question 100-01 (1 point)

Transportation problems:

- are gaps between desired and observed measures of transportation system performance
- b. impact both transportation and other metropolitan systems and need to be mitigated
- c. are usually prioritized based on an area's overall vision, values, goals, and objectives
- d. All of the above

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Transport Problems 2. Question 100-32 (1 point)

Accessibility can be defined as:

- Accessibility call be defined as.
- a system output defining real travel costs and activity benefits
- b. a system input representing potential travel costs and activity benefits
- the number of reachable opportunities multiplied by the corresponding travel times
- d. None of the above

CEE123 Quiz 1

Transportation Planning Process

3. Question 110-04 (1 point)

Travel Forecasting occurs as part of which step in the Transportation Planning Process?

- a. Generation of Alternative Solutions
- b. Engineering Design and Project Programming
- Analysis of Alternative Solutions
- d. Implementation and Monitoring

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Transportation Planning Process

4. Question 110-07 (1 point)

Which agencies holds primary responsibility for regional transportation planning?

- a. City Departments of Public Works
- b. County Transportation Authorities
- c. Metropolitan Planning Organizations
- d. State Departments of Transportation

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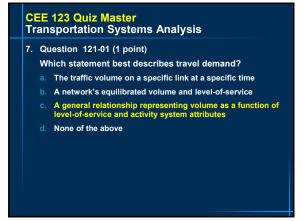
Transportation Systems Analysis

5. Question 120-01 (1 point)

Which of the following sequences reflects the correct top to bottom hierarchy of Transportation Systems Analysis (TSA), the Transportation Planning Process (TPP), and the Four Step Model (FSM)?

- a. TSA > FSM > TPP
- b. TSA > TPP > FSM
- c. TPP > TSA > FSM
- d. TPP > FSM > TSA

CEE 123 Quiz 1 Transportation Systems Analysis 6. Question 120-09 (1 point) Which response correctly labels the boxes in the figure ? a. Box A is volume and Box B is level-of-service b. Box A is level of service and Box B is volume c. Box A is Demand Function and Box B is Performance d. Box A is Performance and Box B is Demand Function



CEE 123 Quiz Master Transportation Systems Analysis 8. Question 122-03 (1 point) Performance functions relate Level-of-Service to: a. Characteristics of the Activity System A b. Characteristics of the Transportation System T c. Travel budget constraints d. All of the above

