

CEE 123 Quiz Master Transport Planning

1. Question 110-01 (1 point)

Which of the following is **not** one of the five primary steps in the Transportation Planning Process?

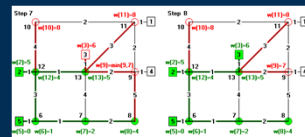
- a. Generation of Alternative Solutions
- b. **Engineering Design and Project Programming**
- c. Evaluation and Choice
- d. Implementation and Monitoring

CEE 123 Quiz Master TSA: Paths

2. Question 128-07 (1 point)

For the application of Dijkstra's Algorithm depicted below, what action should be taken next in step 9?

- a. **Permanently label node 9**
- b. Permanently label node 10
- c. Branch from node 9 to nodes 8 and 13
- d. delete link (12,10) from future consideration



CEE 123 Quiz Master A Framework for Travel Forecasting

3. Question 132-21 (1 point)

What network link type is best described as:

"abstractly connecting TAZs to the network, represented with high capacities and low speeds"

- a. **Centroid connector**
- b. Local roads
- c. Collectors
- d. Arterials

CEE 123 Quiz Master A Framework for Travel Forecasting

4. Question 130-02 (1 point)

What is usually adjusted when calibrating a travel forecasting model?

- a. Variables
- b. Parameters
- c. Mathematical structure
- d. **All of the above**

CEE 123 Quiz Master Travel Behavior & Trip Characteristics

5. Question 135-03 (1 point)

A person leaves work and stops at a grocery store on the way home. The trip from work to the store is a:

- a. home-based work (HBW) trip
- b. home-based other (HBO) trip
- c. **non-home-based (NHB) trip**
- d. none of the above

CEE123 Quiz 2 A Framework for Travel Forecasting

6. Question 140-05 (1 point)

What is the relationship between the Four Step Model (FSM) and Transportation Systems Analysis (TSA)?

- a. The FSM, an independent framework, is an alternative to TSA
- b. The FSM model provides the inputs to TSA models
- c. **The FSM is one means of implementing the demand and performance equilibration procedure of TSA**
- d. None of the above

CEE 123 Quiz Master
FSM: Trip Generation

7. Question 141-01 (1 point)

A trip production can be defined as:

- a. equivalent to a trip origin
- b. the end of a non-home-based trip
- c. **the home end of a home-based trip**
- d. the non-home end of a home-based trip

CEE 123 Quiz Master
FSM: Trip Generation

8. Question 141-06 (1 point)

What is the primary **output** of a trip generation model?

- a. Skim Trees
- b. **Productions and Attractions**
- c. Trip Tables
- d. Link volumes

CEE 123 Quiz Master
FSM: Trip Distribution

9. Question 142-05 (1 point)

What is a primary **input** of a trip distribution or destination choice model?

- a. **Skim Trees**
- b. Performance Functions
- c. Trip Tables
- d. Link volumes

CEE 123 Quiz Master
FSM: Trip Distribution

10. Question 142-06 (1 point)

What is the primary **output** of a trip distribution or destination choice model?

- a. Skim Trees
- b. Productions and Attractions
- c. **Trip Tables**
- d. Link volumes

CEE 123 Quiz 3
FSM: Trip Distribution

11. Question 142-20 (1 point)

What specific model type is used for trip distribution in Miasma Beach?

- a. Singly-constrained Gravity Model with K-factors
- b. Singly-constrained Gravity Model with F-factors
- c. Doubly-constrained Gravity Model with K-factors
- d. **Doubly-constrained Gravity Model with F-factors**

CEE 123 Quiz Master
FSM: Trip Generation

12. Question 141-10 (1 point)

For the HBW production model below, what is the best estimate of HB Work trip productions (P_i) for a TAZ with zero households (H_i) and 100 employees (E_i) ?

$$P_i = 20 + 2.1 H_i + 0.2 E_i$$

- a. 40 HBW productions
- b. 20 HBW productions
- c. **0 HBW productions**
- d. None of the above