

Supplementary Topics - Quiz

1. Which term refers to the study of human abilities and limitations relevant to design?
 - A. Intelligent Transportation Systems
 - B. Human Factors**
 - C. Level of Service
 - D. Vehicle-to-Pedestrian
2. What does Level of Service (LOS) primarily evaluate for a roadway facility?
 - A. efficiency of traffic signs
 - B. Quality of pavement materials
 - C. Operational conditions experienced by users**
 - D. Vehicle emissions
3. Which of the following is a characteristic of uninterrupted flow facilities?
 - A. Traffic controlled by signals
 - B. Flow influenced mainly by internal traffic interactions**
 - C. Frequent stop signs
 - D. Pedestrian crossings
4. What is a key feature of a freeway?
 - A. One lane per direction
 - B. Full access control**
 - C. Traffic signals every two mile
 - D. Low speed limits
5. Which element helps guide user behavior through intentional restrictions?
 - A. Signifiers
 - B. Feedback
 - C. Constraints**
 - D. Mental Models
6. LOS for signalized intersections is typically based on:
 - A. Free-flow speed
 - B. Control delay**
 - C. Number of lanes
 - D. Density

7. Which of the following does NOT constitute an ideal situation on a freeway?

- A. Level terrain
- B. Wide lane widths
- C. No-passing zones
- D. Wide shoulder widths

8. Which of the following is a component of ITS?

- A. Sensors
- B. Communication systems
- C. Control systems
- D. All of the above

9. Which of the following statements is not true?

- A. LOS ranges from A to F
- B. Terrain has no impact on LOS analysis
- C. There could be traffic signals on a multilane highway for safety purposes.
- D. LOS analysis is performed by making adjustments for prevailing conditions that are "less than ideal."

10) What is the ideal width of a travel lane on a highway?

- A. 9 feet
- B. 10 feet
- C. 12 feet
- D. 16 feet