

Unit 3 - Week 1

Course outline

How does an NPTEL online course work?

Week 0 Assignment 0

Week 1

- Lecture 1 : Overview of urban transportation: Urbanization and Transport
- Lecture 2 : Overview of urban transportation: Key issues in urban transportation
- Lecture 3 : Overview of urban transportation: Challenges in urban transportation
- Lecture 4 : Overview of urban transportation: Travel demand modeling overview
- Lecture 5 : Overview of urban transportation: Vehicular Level of Service (LOS) overview
- Lecture material of Week 1

Quiz : Week 1 Assignment 1

Week 1 Feedback Form

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

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Week 10

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Week 12

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Week 1 Assignment 1

The due date for submitting this assignment has passed. **Due on 2020-09-30, 23:59 IST.**
As per our records you have not submitted this assignment.

1) Rapid growth of urban areas is resulting from: 1 point

- a) Development of transport and communication
- b) Increase in population and migration from rural areas
- c) Increase in awareness about urbanization
- d) Educational and recreational facilities

- a)
- b)
- c)
- d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
b)

2) As Indian cities spread outward, poor residents will be increasingly mobility disadvantaged because of: 1 point

- a) Lack of job opportunities
- b) Unaffordable motorized transport
- c) Lack of housing
- d) Increasing cost of amenities

- a)
- b)
- c)
- d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
b)

3) The primary problem with motorization is: 1 point

- a) Increase in number of vehicles
- b) High concentration of vehicles in few areas
- c) High cost on economy
- d) Decrease in employment opportunity

- a)
- b)
- c)
- d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
b)

4) The occurrence of road accidents do not depend on: 1 point

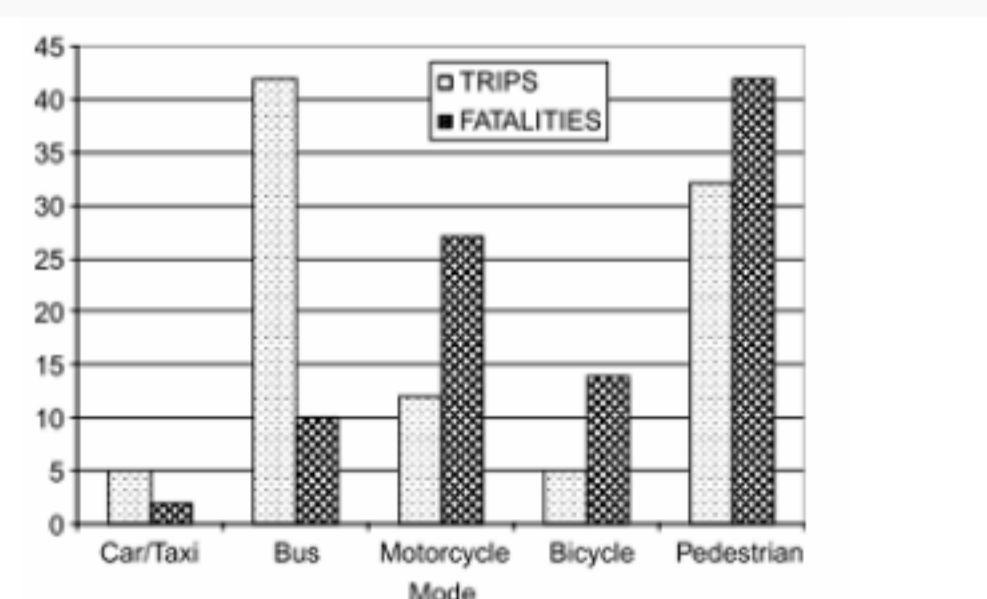
- a) Unsafe driving behavior
- b) Inadequate road design
- c) Unsafe vehicles
- d) High speed corridor

- a)
- b)
- c)
- d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
d)

5) 1 point



What does the above figure indicate in terms of traffic crashes?

- a) Slow moving vehicle and motorists have higher fatalities
- b) Car/ taxi are responsible for most fatalities
- c) Buses have higher fatalities
- d) Pedestrians make most of the trips

- a)
- b)
- c)
- d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
a)

6) How does traffic crashes create a dent on the economy? 1 point

- a) Loss of travel time
- b) Loss of productive age group
- c) Increase in congestion
- d) Increase in unemployment

- a)
- b)
- c)
- d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
b)

7) One of the major reasons contributing to rampant flouting of traffic rules: 1 point

- a) Minimal penalty and ease in acquiring drivers' license
- b) Overcrowding of vehicles
- c) Congestion
- d) Rapid urbanization

- a)
- b)
- c)
- d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
a)

8) The human resource challenge in urban transportation includes: 1 point

- a) Presence of innovative manpower
- b) Presence of untrained, unskilled manpower
- c) Presence of adequate technical staff
- d) None of the above

- a)
- b)
- c)
- d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
b)

9) Which agency sets guidelines and technical standards for road and bridge construction? 1 point

- a) IUT
- b) IRC
- c) RTO
- d) Planning commission

- a)
- b)
- c)
- d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
b)

10) Mathematical model can be defined as 1 point

- (a) Physical representation of reality
- (b) Representing complex relation with the help of symbol
- (c) Using variables, parameters and equation to represent complex relation
- (d) A representation or simulation for device structure

- (a)
- (b)
- (c)
- (d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
(c)

11) 1 point



What does the red line represents in the graph above:

- (a) Supply
- (b) Demand
- (c) Surplus
- (d) Subsidy

- (a)
- (b)
- (c)
- (d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
(a)

12) Arrange the four-stage modelling in correct order 1 point

- (a) Trip Distribution---Trip Assignment---Modal Split---Trip Generation
- (b) Trip Generation---Trip Distribution---Modal Split---Trip Assignment
- (c) Trip Assignment---Modal Split---Trip Distribution---Trip Generation
- (d) Modal Split---Trip Distribution---Trip Assignment---Trip Generation

- (a)
- (b)
- (c)
- (d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
(b)

13) Which of the stage in four-stage modelling allocates trips across various zones? 1 point

- (a) Trip Assignment
- (b) Modal Split
- (c) Trip Generation
- (d) Trip Distribution

- (a)
- (b)
- (c)
- (d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
(d)

14) In which of the stage in four-stage modelling "all or nothing" model is used? 1 point

- (a) Trip Assignment
- (b) Modal Split
- (c) Trip Generation
- (d) Trip Distribution

- (a)
- (b)
- (c)
- (d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
(a)

15) What is the full form of LOS in terms of transportation? 1 point

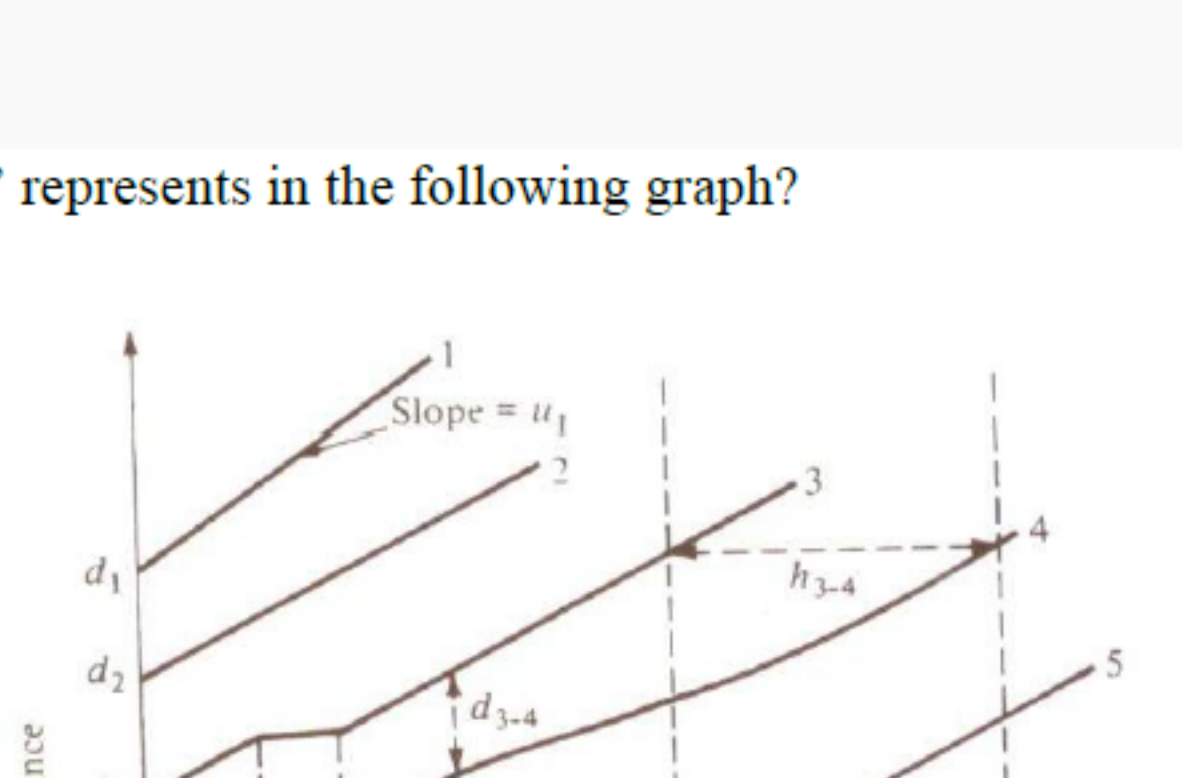
- (a) Loss of signal
- (b) Line of sight
- (c) Level of service
- (d) Line operation safety

- (a)
- (b)
- (c)
- (d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
(c)

16) What does 'h' represents in the following graph? 1 point



- (a) Time headway
- (b) Space headway
- (c) Queue length
- (d) Speed

- (a)
- (b)
- (c)
- (d)

No, the answer is incorrect.
Score: 0

Accepted Answers:
(a)