

Unit 4 - Week 2

Course outline

How does an NPTEL online course work?

Week 0 Assignment 0

Week 1

Week 2

- Lecture 6 : Public Transportation: Introduction to public transportation
- Lecture 7 : Public Transportation: Basic operating elements of public transportation
- Lecture 8 : Public Transportation: Basic operating elements of public transportation (contd.)
- Lecture 9 : Public Transportation: Bus Transportation
- Lecture 10 : Public Transportation: Bus Transportation (contd.)

Quiz : Week 2 Assignment 2

Week 2 Feedback Form

Week 3

Week 4

Week 5

Week 6

Week 7

Week 8

Week 9

Week 10

Week 11

Week 12

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Week 2 Assignment 2

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

- In which category does the inter-city tripfall under in classification based on the area of operation of public transportation? 1 point
 - a) Regional
 - b) Urban
 - c) Local
 - d) None of the above

a)
 b)
 c)
 d)

No, the answer is incorrect.
Score: 0
Accepted Answers: a)
- What are the direct monetary benefits of public transportation? 1 point
 - a) Reduction in per capita emissions
 - b) Increase in individual savings
 - c) Improvement livability of urban areas
 - d) None of the above

a)
 b)
 c)
 d)

No, the answer is incorrect.
Score: 0
Accepted Answers: b)
- Metro rail is a transit (1)_____ and it is classified under the (2) _____ of transit right-of-way. 1 point
 - a) (1) Route, (2) Category A
 - b) (1) Line, (2) Category B
 - c) (1) Route, (2) Category C
 - d) (1) Line, (2) Category A

a)
 b)
 c)
 d)

No, the answer is incorrect.
Score: 0
Accepted Answers: d)
- Which of the following order is correct? 1 point
 - a) Network length < Line length < Total line length
 - b) Total line length < Network length < Line length
 - c) Line length < Network length < Total line length
 - d) Total line length < Line length < Network length

a)
 b)
 c)
 d)

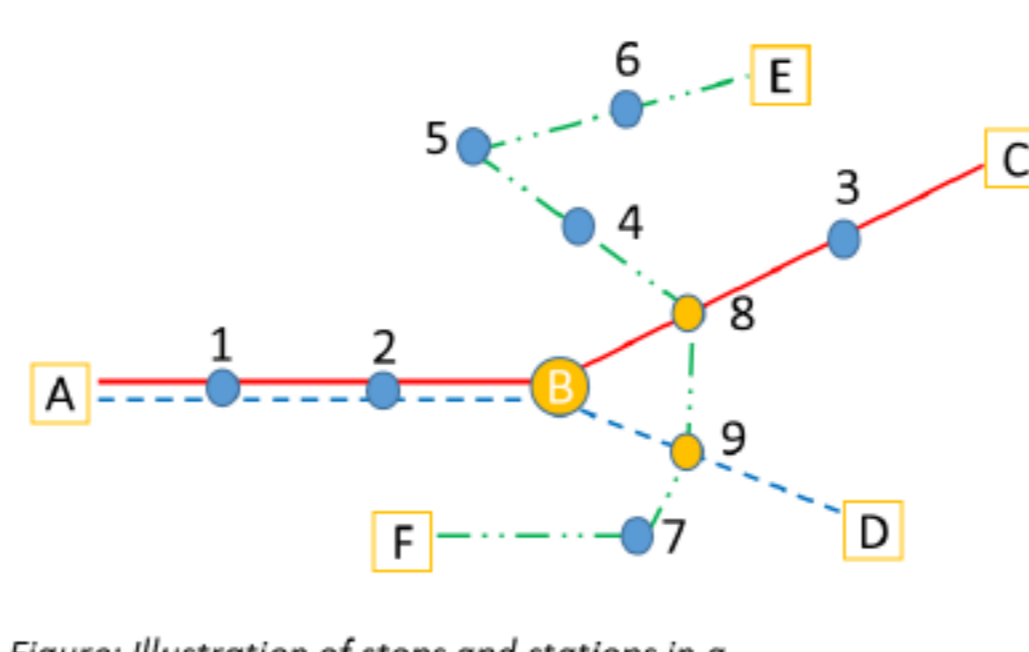
No, the answer is incorrect.
Score: 0
Accepted Answers: c)
- From the following figure, identify what type of stations are 'B', '8', and '9'? 1 point


Figure: Illustration of stops and stations in a transit network (not to scale)

 - a) Transit stops
 - b) Terminal stations
 - c) Transfer stations
 - d) Public booths

a)
 b)
 c)
 d)

No, the answer is incorrect.
Score: 0
Accepted Answers: c)
- How do you calculate fleet utilization factor (ϕ)? 1 point
 - a) $\phi = \frac{N+N_r}{N_r}$
 - b) $\phi = \frac{N_r}{N_r}$
 - c) $\phi = \frac{N}{N_r} + N_r + N_r$
 - d) $\phi = \frac{N+N_r}{N_r}$

Where,
N is vehicles for regular service (peak hour)
N_r is reserve vehicles, and
N_r is fleet size

a)
 b)
 c)
 d)

No, the answer is incorrect.
Score: 0
Accepted Answers: d)
- What is the relationship between headway and frequency of service? 1 point
 - a) Directly proportional
 - b) Inversely proportional
 - c) Not related
 - d) Headway is constant

a)
 b)
 c)
 d)

No, the answer is incorrect.
Score: 0
Accepted Answers: b)
- Which of the following refers to the time taken by an individual passenger to reach a transit stop from the origin or depart from a transit stop to the destination? 1 point
 - a) Passenger travel time
 - b) On-line travel time
 - c) Transfer time
 - d) Access time

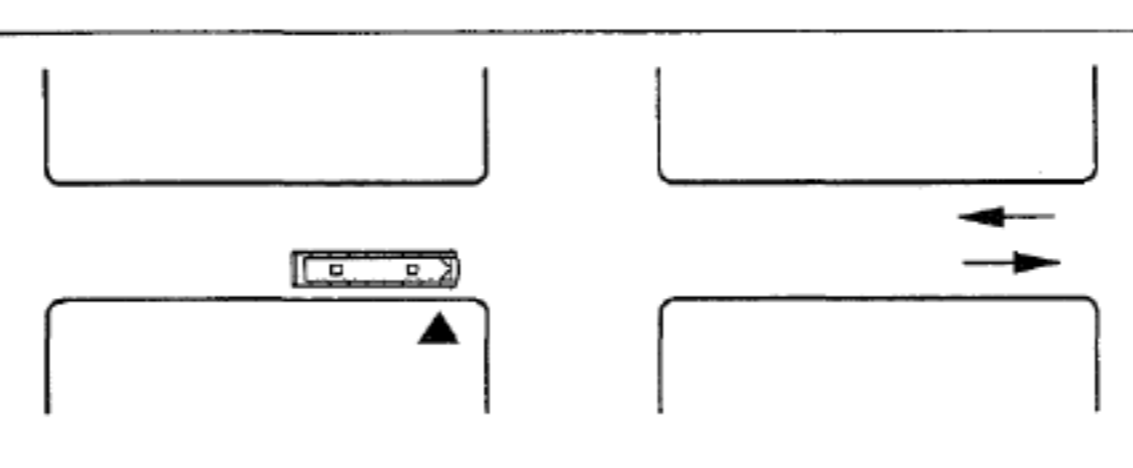
a)
 b)
 c)
 d)

No, the answer is incorrect.
Score: 0
Accepted Answers: d)
- What is station-to-station travel time? 1 point
 - a) Equals operating time
 - b) Difference of running time and dwell time
 - c) Sum of running time and dwell time
 - d) Sum of running and operating time

a)
 b)
 c)
 d)

No, the answer is incorrect.
Score: 0
Accepted Answers: c)
- What does one mean by programmed speed? 1 point
 - a) The speed of travel offered to public
 - b) The average speed of a TU for a complete round trip on a line
 - c) The average speed TUs achieve from leaving one station to arriving at next one
 - d) The speed transit vehicles can operate meeting standards of safety, comfort, economy, and performance.

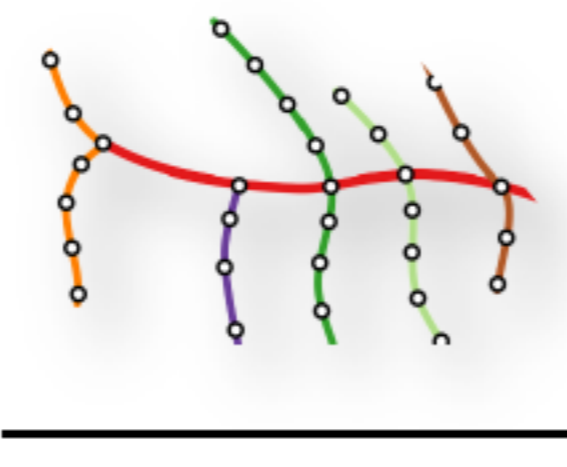
a)
 b)
 c)
 d)

No, the answer is incorrect.
Score: 0
Accepted Answers: d)
- What is type of (1) bus stop placement and (2) bus stop design shown in the following figure? 1 point

 - a) (1) Far-side bus stop, (2) open bus bay
 - b) (1) Near-side bus stop, (2) curb side stop
 - c) (1) Mid-block bus stop, (2) queue jumper bus bay
 - d) (1) Grid pattern, (2) curb side stop


a)
 b)
 c)
 d)

No, the answer is incorrect.
Score: 0
Accepted Answers: b)
- Consider that you live in an urban area, outside the Core area or CBD, and the shortest route to the first bus stop from your home is 125 meters. If bus stops are placed at maximum spacing range as per the guidelines then what is the distance that is to be travelled to reach the second bus stop via the first stop? 0 points
 - a) 500
 - b) 1325
 - c) 875
 - d) 625

a)
 b)
 c)
 d)

No, the answer is incorrect.
Score: 0
Accepted Answers: b)
- What is the type of network system shown in the following diagram? 1 point

 - a) Timed transfer networks
 - b) Grid-type network
 - c) Radial crisscross
 - d) Trunk line with feeders

a)
 b)
 c)
 d)

No, the answer is incorrect.
Score: 0
Accepted Answers: d)
- What is the type of bus and the range of standees for the bus shown in the following figure? 1 point

 - a) Bi-articulated bus, 28-40
 - b) Conventional bus, 19-40
 - c) Articulated bus, 30-60
 - d) Bi-articulated bus, 19-40

a)
 b)
 c)
 d)

No, the answer is incorrect.
Score: 0
Accepted Answers: c)
- What are the steps given in bus service planning guidelines? 1 point
 - a) Service pattern, Service levels, New routes and Passenger comfort and safety
 - b) Service pattern, Service operators, New routes and Passenger comfort and safety
 - c) Service operations, New routes and Passenger comfort and safety
 - d) None of the above

a)
 b)
 c)
 d)

No, the answer is incorrect.
Score: 0
Accepted Answers: a)
- What type of performance indicator is passenger journey time? 1 point
 - a) Operational performance indicators
 - b) Financial performance indicators
 - c) Quality of service indicators
 - d) Vehicle performance indicator

a)
 b)
 c)
 d)

No, the answer is incorrect.
Score: 0
Accepted Answers: c)