http://www.na.edu

E-mail: moodle@na.edu

NORTH AMERICAN UNIVERSITY
INSPIRATION INNOVATION GLOBAL COMPETENCE

Geraldo Braho

Started on	Saturday, 3 December 2016, 3:45 PM
State	Finished
Completed on	Saturday, 3 December 2016, 3:50 PM
Time taken	4 mins 45 secs
Marks	4.00/5.00
Grade	**80.00** out of 100.00

Question 1

Correct Mark 1.00 out of 1.00

Degree of a network is determined by _____ degree of any of its nodes.

Select one:

- a. median
- b. smallest
- c. None of the above
- d. largest ✓

Your answer is correct.

The correct answer is: largest

Question 2

Correct Mark 1.00 out of 1.00

In a network it is logical to use _____ to traverse the nodes closer to the starting node first.

Select one:

- a. Exhaustive Search
- b. Depth-First Search
- c. Breadth-First Search ✓
- d. Heuristic Search

Your answer is correct.

The correct answer is: Breadth-First Search

Question 3

Correct Mark 1.00 out of 1.00

_____ Algorithm is best suited to find the shortest path between nodes in a network.

Select one:

- a. Minimax
- b. Heuristic
- c. Dijkstra's ✓
- d. Exhaustive

Your answer is correct.

The correct answer is: Dijkstra's

Question 4

Correct Mark 1.00 out of 1.00

What is the purpose of the following algorithm?

```
Boolean: Algo (Node: start_node)
  // Traverse the network starting from start_node.
  Traverse(start_node)
  // See if any node has not been visited.
  For Each node In <all nodes>
    If (Not node.Visited) Then Return False
  Next node
  // All nodes were visited.
Return True
End Algo
```

Select one:

- a. Depth-first Traversal
- b. To find the spanning tree
- c. To determine whether an undirected network has a cycle
- d. To determine whether an undirected network is connected ✓

Your answer is correct.

The correct answer is: To determine whether an undirected network is connected

Question 5 Incorrect Mark 0.00 out of 1.00

Depth-first traversal algorithm implemented for trees might have a problem on networks because of _____.

Select one:

- a. cycles
- b. links
- c. nodes
- d. missing root ✗

Your answer is incorrect.

The correct answer is: cycles