VU QUIZ REPORT

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Subject: CS502

Quiz Completed: 1/6/2026, 12:02:01 PM
Total Questions: 10

Question 1:

Cross edge is :

A. (u, v) where u is ancesstor of v and v is not descendent of u.

B. (u, v) where u and v are either ancestor or descendent of one another.

C. (u, v) where u and v are not ancestor or descendent of one another

D. (u, v) where u and v are not ancestor of one another

Selected Answer: C

Question 2:

For _____ graphs, there is no distinction between forward and back edges.

A. large

B. undirected

C. directed

D. small

Selected Answer: B

Question 3:

If you find yourself in maze the better traversel approach will be :

A. BFS and DFS both are valid

B. Level order

C. DFS

D. BFS

Selected Answer: A

Question 4:

In undirected graph, by convention all the edges are called _____ edges.

A. Cross

B. Forward

C. Back

D. Both forward and back

Selected Answer: C

Question 5:

In digraph G=(V,E) ;G has cycle if and only if

A. BFS forest has forward edge

B. The DFS forest has forward edge.

C. The DFS forest has back edge

D. The DFS forest has both back and forward edge

Selected Answer: C

Question 6:

In computing the _____ components of a digraph, vertices of the digraph are partitioned into subsets.

A. weakly connected

B. best

C. strongly connected

D. worst

Selected Answer: C

Question 7:

In computing the strongly connected components of a digraph, vertices of the digraph are _____ into subsets.

A. Joined

B. Deleted

C. Partitioned

D. Created

Selected Answer: C

Question 8:

A digraph is strongly connected under what condition?

A. A digraph is strongly connected if at least one third pair of vertices u, v e V, u can reach v and vice versa.

B. A digraph is strongly connected if for at least one pair of vertex u, v e V, u can reach v and vice versa.

C. A digraph is strongly connected if for every pair of vertices u, v e V, u can reach v .

D. A digraph is strongly connected if for every pair of vertices u, v e V, u can reach v and vice versa.

Selected Answer: D

Question 9:

The _____ given by DFS allow us to determine a number of things about a graph or digraph.

A. time stamps

B. line stamps

C. node stamps

D. color stamps

Selected Answer: A

Question 10:

The ancestor and descendent relation can be nicely inferred by the _____ lemma.

A. parenthesis

B. division

C. node

D. addition

Selected Answer: A