

Dashboard

Quiz-18-03-2026: Attempt rev...

Advanced Preferences

10.11.1.19/tessellator50/mod/quiz/review.php?attempt=20071&cmid=16089

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Log out (PVR KRISHNA MANOJ KMIT)

Quiz-18-03-2026

Started on

Tuesday, 18 March 2025, 2:30 PM

State

Finished

Completed on

Tuesday, 18 March 2025, 2:41 PM

Time taken

10 mins 52 secs

Marks

18.00/20.00

Grade

90.00 out of 100.00

Question 1

Complete

Mark 1.00 out of 1.00

Flag question

What is the maximum number of nodes in a binary tree of height 'h' (where height is counted as the number of edges from root to the deepest node)?

☐ a. $(h \log h)$

☐ b. (h^2)

☐ c. $(2^h - 1)$

☒ d. $(2^{h+1} - 1)$

Question 2

Complete

Mark 1.00 out of 1.00

Flag question

What is the output of the following function when applied to an undirected graph represented as an adjacency list?

Function BFS(Node start):

Queue Q

Add start to Q

While Q is not empty:

Node u = Q.dequeue()

Question 2

Complete

Mark 1.00 out of 1.00

Flag question

What is the output of the following function when applied to an undirected graph represented as an adjacency list?

Function BFS(Node start):

Queue Q

Add start to Q

While Q is not empty:

Node u = Q.dequeue()

print u

For each neighbor v of u:

If v is not visited:

Mark v as visited

Add v to Q

☐ a. Detection of cycles

☒ b. Breadth First Traversal

☐ c. Depth-First Traversal

☐ d. Finding the minimum spanning tree

Question 3

Complete

Which of the following SQL statements is used to remove an entire table including its structure?

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Question 3

Complete

Mark 1.00 out of 1.00

Flag question

Which of the following SQL statements is used to remove an entire table including its structure?

☐ a. 'REMOVE TABLE Employees;'

☐ b. 'TRUNCATE TABLE Employees;'

☐ c. 'DELETE TABLE Employees;'

☒ d. 'DROP TABLE Employees;'

Question 4

Complete

Mark 1.00 out of 1.00

Flag question

Which of the following SQL commands can be used to modify the structure of an existing table?

☐ a. 'MODIFY'

☒ b. 'ALTER'

☐ c. 'CHANGE'

☐ d. 'UPDATE'

Question 5

Complete

Mark 1.00 out of 1.00

Flag question

What will happen if we execute the following command?

TRUNCATE TABLE Orders;

☐ a. Returns an error if there are foreign key constraints.

☒ b. Deletes all rows but retains the table structure.

☐ c. Deletes selected rows only.

☐ d. Deletes all rows and removes the table structure.

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Question 6

Complete

Mark 1.00 out of 1.00

Flag question

Which SQL command is used to modify existing data in a table?

☐ a. 'MODIFY'

☐ b. 'INSERT'

☐ c. 'ALTER'

☒ d. 'UPDATE'

Question 7

Complete

Mark 1.00 out of 1.00

Flag question

Consider the following SQL query:

UPDATE Employees
SET Salary = Salary + 5000
WHERE Department = 'HR';

What does this query do?

☒ a. Increases salary of only HR department employees by 5000.

☐ b. Throws an error due to the 'WHERE' clause.

☐ c. Increases all employees' salary by 5000.

☐ d. Decreases salary of HR department employees by 5000.

Question 8

Complete

Mark 1.00 out of 1.00

Flag question

What will happen if you execute the following SQL statement?

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d. Decreases salary of HR department employees by 5000.

Question 8

Complete

Mark 1.00 out of 1.00

Flag question

What will happen if you execute the following SQL statement?

INSERT INTO Students (ID, Name) VALUES (101, 'John');
INSERT INTO Students (ID, Name) VALUES (101, 'Mike');

a. Only the first row is inserted; the second one causes a Primary Key violation.

b. Both rows will be inserted successfully.

c. The second statement overwrites the first one.

d. Error due to missing 'VALUES' keyword.

Question 9

Complete

Mark 1.00 out of 1.00

Flag question

Which SQL statement is used to give a user access to a database?

a. 'GRANT'

b. 'ALTER'

c. 'REVOKE'

d. 'ACCESS'

Question 10

Complete

What will be the result of the following SQL statement?

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d. 'ACCESS'

Question 10

Complete

Mark 1.00 out of 1.00

Flag question

What will be the result of the following SQL statement?

REVOKE INSERT, UPDATE ON Employees FROM user1;

a. 'user1' loses SELECT privilege on 'Employees'.

b. 'user1' loses all privileges on 'Employees'.

c. Nothing happens.

d. 'user1' loses INSERT and UPDATE privileges on 'Employees'.

Question 11

Complete

Mark 1.00 out of 1.00

Flag question

Which SQL command is used to permanently save a transaction?

a. 'ROLLBACK'

b. 'UPDATE'

c. 'SAVEPOINT'

d. 'COMMIT'

Question 12

Complete

Mark 1.00 out of 1.00

Consider the following pseudo-code for a function 'func(Node root)' applied to a binary tree. What does it compute?

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Complete
Mark 1.00 out of 1.00
Flag question

☐ a. 'ROLLBACK'

☐ b. 'UPDATE'

☐ c. 'SAVEPOINT'

☒ d. 'COMMIT'

Question 12
Complete
Mark 1.00 out of 1.00
Flag question

Consider the following pseudo-code for a function 'func(Node root)' applied to a binary tree. What does it compute?

Function func(Node root):
if root is NULL:
return 0
return 1 + func(root.left) + func(root.right)

☐ a. Sum of all node values

☐ b. Height of the tree

☒ c. Number of nodes in the tree

☐ d. Maximum depth of the tree

Question 13
Complete

Consider the following SQL sequence:
BEGIN;

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Question 13
Complete
Mark 1.00 out of 1.00
Flag question

Consider the following SQL sequence:
BEGIN;
UPDATE Employees SET Salary = Salary + 5000 WHERE Department = 'IT';
ROLLBACK;

☐ a. Only half the rows get updated.

☒ b. No change will happen in the Employees table.

☐ c. The salaries of IT employees will increase by 5000.

☐ d. An error occurs because 'ROLLBACK' cannot undo an 'UPDATE'.

Question 14
Complete
Mark 1.00 out of 1.00
Flag question

Which of the following is always true for a full binary tree with 'n' nodes?

☐ a. The height of the tree is always 'log n'

☒ b. Every node has either 0 or 2 children

☐ c. Every level is completely filled

☐ d. The tree is always balanced

Question 15
Complete

Given a BST, which of the following elements will always be found in the left subtree of a node with value 'x'?

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Question 15

Complete

Mark 1.00 out of 1.00

Flag question

Given a BST, which of the following elements will always be found in the left subtree of a node with value 'x'?

- ☐ a. All elements in the tree
- ☒ b. Elements less than 'x'
- ☐ c. Elements equal to 'x'
- ☐ d. Elements greater than 'x'

Question 16

Complete

Mark 1.00 out of 1.00

Flag question

What is the output of the following function when applied to a BST?

Function findMin(Node root):

```
if root is NULL:
    return NULL
if root.left is NULL:
    return root.data
return findMin(root.left)
```

- ☒ a. The minimum value in the BST
- ☐ b. The maximum value in the BST
- ☐ c. The sum of all nodes
- ☐ d. The height of the BST

Question 17

Complete

Mark 0.00 out of 1.00

Flag question

What is the worst-case time complexity of deleting a node in an unbalanced BST with 'n' nodes?

- ☐ a. $O(\log n)$
- ☐ b. $O(n \log n)$
- ☒ c. $O(n^2)$
- ☐ d. $O(1)$

Question 18

Complete

Mark 1.00 out of 1.00

Flag question

Which of the following statements is true for Dijkstra's Algorithm?

- ☐ a. It works correctly with negative-weight cycles
- ☐ b. It finds the shortest path between all pairs of nodes
- ☐ c. It guarantees the shortest path in all cases
- ☒ d. It works only for graphs with non-negative weights

Question 19

Complete

Mark 0.00 out of 1.00

Flag question

What is the time complexity of Depth-First Search (DFS) on a graph with 'V' vertices and 'E' edges using an adjacency matrix?

- ☐ a. $O(V)$
- ☒ b. $O(E \log V)$
- ☐ c. $O(V + E)$
- ☐ d. $O(V^2)$

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Question 17

Complete

Mark 0.00 out of 1.00

Flag question

What is the worst-case time complexity of deleting a node in an unbalanced BST with 'n' nodes?

☐

 a. $O(\log n)$

☐

 b. $O(n \log n)$

☒

 c. $O(n^2)$

☐

 d. $O(1)$

Question 18

Complete

Mark 1.00 out of 1.00

Flag question

Which of the following statements is true for Dijkstra's Algorithm?

☐

 a. It works correctly with negative-weight cycles

☐

 b. It finds the shortest path between all pairs of nodes

☐

 c. It guarantees the shortest path in all cases

☒

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Question 19

Complete

Mark 0.00 out of 1.00

Flag question

What is the time complexity of Depth-First Search (DFS) on a graph with 'V' vertices and 'E' edges using an adjacency matrix?

☐

 a. $O(V)$

☒

 b. $O(E \log V)$

☐

 c. $O(V + E)$

☐

 d. $O(V^2)$

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☐

 c. It guarantees the shortest path in all cases

☒

 d. It works only for graphs with non-negative weights

Question 19

Complete

Mark 0.00 out of 1.00

Flag question

What is the time complexity of Depth-First Search (DFS) on a graph with 'V' vertices and 'E' edges using an adjacency matrix?

☐

 a. $O(V)$

☒

 b. $O(E \log V)$

☐

 c. $O(V + E)$

☐

 d. $O(V^2)$

Question 20

Complete

Mark 1.00 out of 1.00

Flag question

Which traversal method should be used to determine if a directed graph contains a cycle?

☐

 a. Dijkstra's Algorithm

☐

 b. Breadth-First Search (BFS)

☒

 c. Depth-First Search (DFS) with recursion stack

☐

 d. Kruskal's Algorithm

Finish review

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Started on

Tuesday, 18 March 2025, 2:48 PM

State

Finished

Completed on

Tuesday, 18 March 2025, 2:53 PM

Time taken

5 mins

Marks

3.00/3.00

Grade

60.00 out of 100.00

Question 1

Complete

Marks 1.00 out of 1.00

Flag question

The company generates revenue from Product A, Product B, Product C, Product D, and Other Products. The chart shows the percentage share of each product in total revenue.

Question:

If the company's total revenue for the year was \$500 million, how much revenue did Product B generate?

Revenue Distribution of a Company

Product	Percentage
Product A	30.0%
Product B	20.0%
Product C	20.0%
Product D	15.0%
Others	15.0%

☐ a. \$125 million

☐ b. \$150 million

☒ c. \$100 million

☐ d. \$175 million

Your answer is correct.

Question 2

Complete

Marks 1.00 out of 1.00

Flag question

How many enqueue/dequeue operations are required to support the following sequence of stack operations?

push(10)

push(20)

pop()

push(30)

push(40)

pop()

☐ a. 7 enqueue 6 dequeue

☐ b. 8 enqueue 5 dequeue

☒ c. 7 enqueue 5 dequeue

☐ d. 8 enqueue 6 dequeue

Your answer is incorrect.

Question 3

Complete

Marks 1.00 out of 1.00

Flag question

Annual Crop Production Distribution

Crop	Production (Million Tons)
Crop 1	120
Crop 2	140
Crop 3	110
Crop 4	90

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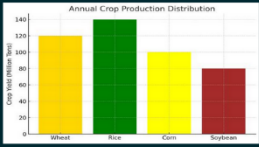
Questions 3

Complete

Mark 1.00 out of 1.00

Flag question

Annual Crop Production Distribution



Crop	Yield (Million Tons)
Wheat	120
Rice	135
Corn	100
Soybeans	80

If a drought affected Corn production reducing its yield by 20%, what would be the new production value for Corn?

☐ a. 80 million tons

☐ b. 90 million tons

☐ c. 100 million tons

☐ d. 110 million tons

Your answer is incorrect.

Questions 4

Complete

Mark 1.00 out of 1.00

Flag question

Three players, X, Y, and Z, participated in a football league. The ratio of the number of goals by X to Y and the ratio of the number of goals by Y to Z is each 4:3. They scored a total of 400 goals in the season. How many goals did Player X score?

☐ a. 178

Your answer is correct.

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Questions 4

Complete

Mark 1.00 out of 1.00

Flag question

Three players, X, Y, and Z, participated in a football league. The ratio of the number of goals by X to Y and the ratio of the number of goals by Y to Z is each 4:3. They scored a total of 400 goals in the season. How many goals did Player X score?

☐ a. 128

☐ b. 172

☐ c. 168

☐ d. 184

Your answer is correct.

Questions 5

Complete

Mark 1.00 out of 1.00

Flag question

Stock Capital as a Percentage of Market Value Over Years



Year	2018	2019	2020	2021
Stock Capital (\$M)	50	70	80	110
Market Value (\$M)	1200	1000	1600	2100

A company's financial team is analyzing the stock capital as a percentage of total market value over the past four years.

In which year was the stock capital as a percentage of market value the highest?

☐ a. 2018

☐ b. 2019

☐ c. 2020

☐ d. 2021

Your answer is incorrect.