

**CS301P - Data Structures (Practical)**

**(Graded Quiz - 4)**

**Most Important Mcqs Final term**

# Ifraheem Hussain

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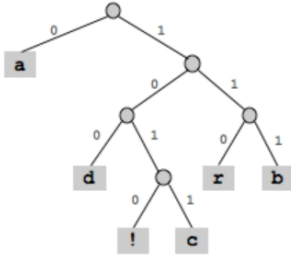
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Question # 10 of 10 ( Start time: 05:22:16 AM, 02 July 2025 )

Total Marks: 1

Which of the following bit stream represents the string 'cab' in the given Huffman tree?



Select the correct option

[Reload Math Equations](#)

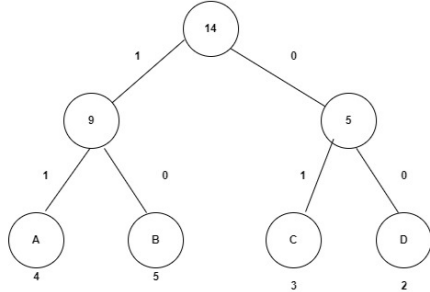
- 1011 0 110
- 110 1011 0
- 100 110 111
- 1011 0 111

[Click to Save Answer & Move to Next Question](#)

Question # 9 of 10 (Start time: 05:21:48 AM, 02 July 2025)

Total Marks: 1

What is the encoding of character 'C' in the given Huffman encoding tree?



Select the correct option

Reload Math Equations

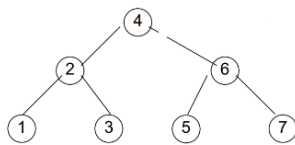
- 10
- 00
- 11
- 01

Click to Save Answer & Move to Next Question

Question # 8 of 10 (Start time: 05:21:16 AM, 02 July 2025)

Total Marks: 1

What will be the balance factor of node 6 if node 5 is deleted from the given tree ?



Select the correct option

Reload Math Equations

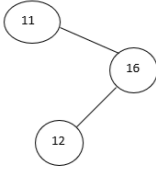
- 1
- 1
- 0
- 2

Click to Save Answer & Move to Next Question

Question # 7 of 10 ( Start time: 05:20:49 AM, 02 July 2025 )

Total Marks: 1

Which type of rotation can balance the following AVL tree?



Select the correct option

[Reload Math Equations](#)

- |                                  |                   |
|----------------------------------|-------------------|
| <input type="radio"/>            | Single left       |
| <input checked="" type="radio"/> | Double right-left |
| <input type="radio"/>            | Double left-right |
| <input type="radio"/>            | Single right      |

[Click to Save Answer & Move to Next Question](#)

Question # 6 of 10 ( Start time: 05:20:36 AM, 02 July 2025 )

Total Marks: 1

If the tree becomes unbalance after deleting a node then we use \_\_\_\_\_ to rebalance it.

Select the correct option

[Reload Math Equations](#)

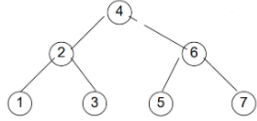
- |                                  |            |
|----------------------------------|------------|
| <input type="radio"/>            | Stack      |
| <input type="radio"/>            | Heap       |
| <input type="radio"/>            | Insertions |
| <input checked="" type="radio"/> | Rotations  |

[Click to Save Answer & Move to Next Question](#)

Question # 5 of 10 ( Start time: 05:20:07 AM, 02 July 2025 )

Total Marks: 1

What will be the balance factor of node 2 if node 1 is deleted from the given tree ?



Select the correct option

Reload Math Equations

- 2
- 1
- 0
- 1

Click to Save Answer & Move to Next Question

Question # 4 of 10 ( Start time: 05:19:55 AM, 02 July 2025 )

Total Marks: 1

The ASCII value for character 'A' is:

Select the correct option

Reload Math Equations

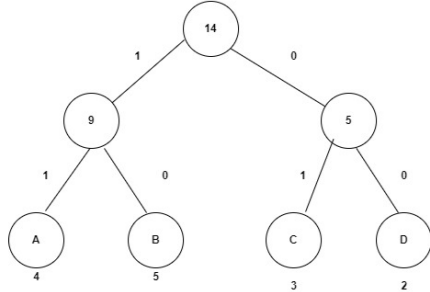
- 68
- 65
- 66
- 67

Click to Save Answer & Move to Next Question

Question # 3 of 10 (Start time: 05:19:28 AM, 02 July 2025)

Total Marks: 1

What is the total frequency of character 'B' in the given Huffman encoding tree?



Select the correct option

Reload Math Equations

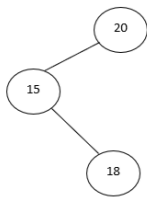
- 9
- 14
- 0
- 5

Click to Save Answer & Move to Next Question

Question # 2 of 10 (Start time: 05:18:43 AM, 02 July 2025)

Total Marks: 1

Which type of rotation can balance the following AVL tree?



Select the correct option

Reload Math Equations

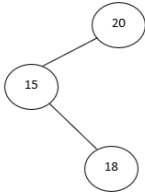
- Single left
- Single right
- Double right-left
- Double left-right

Click to Save Answer & Move to Next Question

Question # 2 of 10 ( Start time: 05:18:43 AM, 02 July 2025 )

Total Marks: 1

Which type of rotation can balance the following AVL tree?



Select the correct option

[Reload Math Equations](#)

<input type="radio"/>	Single left
<input type="radio"/>	Single right
<input checked="" type="radio"/>	Double right-left
<input type="radio"/>	Double left-right

[Click to Save Answer & Move to Next Question](#)

Question # 1 of 10 ( Start time: 05:18:08 AM, 02 July 2025 )

Total Marks: 1

If values 9,5,7 are used to build AVL tree then which type of rotation can balance the AVL tree?

Select the correct option

[Reload Math Equations](#)

<input type="radio"/>	Single right
<input type="radio"/>	Double right-left
<input checked="" type="radio"/>	Double left-right
<input type="radio"/>	Single left

[Click to Save Answer & Move to Next Question](#)

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