

## **PAID VU LMS HANDLING by Mam Mehwish**

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### **Past Papers for Mids./Finals are also Available**

Certainly, here are the multiple-choice questions (MCQs), along with their four options and the correct options:

1. A hole is created which needs to be filled if the element is \_\_\_\_\_ from the heap.

Options:

- a) Updated
- b) Inserted
- c) Deleted

Correct Option: c) Deleted

2. Consider a max heap, represented by the following array: 49, 39, 36, 31, 27, 21, 35, 12. After the deletion of node with value 49, which of the following is the updated max heap?

Options:

- a) 39, 36, 31, 12, 27, 21, 35
- b) 39, 36, 31, 27, 21, 35, 12
- c) 39, 36, 35, 21, 27, 31, 12
- d) 39, 31, 36, 12, 27, 21, 35

Correct Option: b) 39, 36, 31, 27, 21, 35, 12

3. Consider the max heap represented by the following array: 50, 40, 30, 20, 25, 26, 27, 18, 14. What is the parent of node 14?

Options:

- a) 50
- b) 30
- c) 40
- d) 20

Correct Option: c) 40

4. Consider a min heap, represented by the following array: 5, 6, 8, 9, 7. After deleting the root node, which of the following is the updated min heap?

Options:

- a) 6, 7, 8, 9
- b) 6, 7, 9, 8
- c) 8, 9, 6, 7
- d) 7, 9, 6, 8

Correct Option: a) 6, 7, 8, 9

5. A complete binary tree with a property that the value at each node is at least as small as the values in its children are called as \_\_\_\_\_.

Options:

- a) Max Heap
- b) Binary tree
- c) Min Heap
- d) Binary search tree

Correct Option: c) Min Heap

1. A hole is created which needs to be filled if the element is \_\_\_\_\_ from the heap.

Options:

- A) Deleted
- B) Updated
- C) There is no concept of a hole in heap
- D) Inserted

Correct Answer: D) Inserted

2. A complete binary tree with a property that the value at each node is at least as small as the values in its children are called as \_\_\_\_\_.

Options:

- A) Min Heap
- B) Binary search tree
- C) Max Heap
- D) Binary tree

Correct Answer: A) Min Heap

3. Which of the following node has the maximum value in a max heap?

Options:

- A) None of the given options
- B) Root node
- C) Right-most child
- D) Left-most child

Correct Answer: B) Root node

4. Consider a min heap, represented by the following array: 5,6,8,9,7 After deleting the root node. Which of the following is the updated min heap?

Options:

- A) 8,7,9,6
- B) 6,7,8,9
- C) 6,8,9,7
- D) 6,8,9,7

Correct Answer: C) 6,8,9,7

5. Consider a max heap, represented by the following array: 49, 39, 36, 31, 27, 21, 35, 12 After the deletion of the node with value 49. Which of the following is the updated max heap?

Options:

- A) 39, 36, 31,12, 27, 21, 35
- B) 39, 31, 36,12, 27, 21, 35
- C) 39, 31, 36,12, 27, 21, 35

D) (None of the above)

Correct Answer: B) 39, 31, 36, 12, 27, 21, 35

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