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VU SOLUTION SPRING 2023

CS301 - Data Structures

QUIZ # 4 SOLVE

Question # 1 of 10 (Start time: 01:12:18 PM, 18 July 2023)

Given the values are the array representation of heap;
12 23 26 31 34 44 56 64 78 100
If we perform 4 deleteMin operations, the last element deleted is_____.

Select the correct option

- (●) 34
- ( ) 31
- ( ) 44
- ( ) 56

Question # 2 of 10 (Start time: 01:13:21 PM, 18 July 2023)

Which of the following statement is NOT correct regarding Table ADT?

Select the correct option

○	The row of a table is called a record.
○	A major use of table is in databases where we build and use tables for keeping information.
◉	A table consists of several columns, known as entities.
○	In a table, the type of information in columns may be different.

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Question # 3 of 10 (Start time: 01:14:19 PM, 18 July 2023)

A pair of sets which does not have any _____ element are called disjoint sets

Select the correct option

○	Uncommon
●	Common
○	Null
○	Different

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Question # 4 of 10 (Start time: 01:15:29 PM, 18 July 2023)

In 1990,Bill Pugh proposed an enhancement on linked lists and the new data structure was termed as

Select the correct option

○	Enhanced Linked list
◉	Skip list
○	Fixed list
○	Tree List

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Question # 5 of 10 (Start time: 01:16:19 PM, 18 July 2023)

Given the values are the array representation of heap;
12 23 26 31 34 44 56 64 78 100
What is the 5th smallest element in the given heap?

Select the correct option

○	56
○	44
○	31
◉	34

Question # 6 of 10 (Start time: 01:17:11 PM, 18 July 2023)

Which one of the following is NOT the property of equivalence relation?

Select the correct option

◉	Associative
○	Transitive
○	Reflexive
○	Symmetric

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Question # 7 of 10 (Start time: 01:17:45 PM, 18 July 2023)

A perfect binary tree is constructed using 131071 nodes then what will be the maximum height of that binary tree?

Select the correct option

◉	15
○	17
○	16
○	14

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Question # 9 of 10 (Start time: 01:20:27 PM, 18 July 2023)

Which of the following properties are satisfied by Equivalence relationship?

Select the correct option

○	Only Reflexive and Symmetric
○	Only Reflexive and Transitive
◉	Reflexive , Symmetric and Transitive
○	Only Symmetric and transitive

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Question # 10 of 10 (Start time: 01:21:38 PM, 18 July 2023)

There are 100 elements in a heap, if we perform 100 deleteMin operations then we will get _____ list

Select the correct option

○	Unsorted
○	Nonlinear
○	Sorted
●	Random

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