

Started on	Tuesday, 10 May 2022, 11:10 AM
State	Finished
Completed on	Tuesday, 10 May 2022, 11:22 AM
Time taken	12 mins 4 secs
Marks	10.00/10.00
Grade	100.00 out of 100.00

Question 1

Complete

Mark 1.00 out of
1.00

Convert the postfix expression into infix.
 $ab + cd * f / -g +$

Select one:

☐ a.

$A + (b - c) / d * (f + g)$

☐ b.

$A + b - (c * d) + (f / g)$

☐ c.

$(a + b) * (c - d) / (f + g)$

☒ d.

$((a + b) - ((c * d) / f)) + g$

Question 2

Complete

Mark 1.00 out of
1.00

If we draw a binary search tree by inserting the given numbers from left to right. then what would be the height of the BST?
1,4,3,5,7,9

Select one:

- ☐ a. 2
- ☐ b. 3
- ☐ c. 63
- ☒ d. 5

Question
3

Complete
Mark 1.00 out of
1.00

what is the Adjacency Matrix of the following Graph?

a-----b
| |
c-----d

Select one:

- ☐ a.

```
1 0 1 1
0 1 0 1
1 1 1 1
1 1 1 1
```
- ☐ b.

```
1 1 1 1
0 0 0 0
1 0 1 0
0 1 0 1
```
- ☒ c.

```
0 1 1 0
1 0 0 1
1 0 0 1
0 1 1 0
```
- ☐ d.

```
1 0 0 1
  0 1 1 0
  0 1 1 0
  1 0 0 1
```

Question 4

Complete

Mark 1.00 out of
1.00

Evaluate the given postfix expression.

2 3 + 5 * 2 3 + 4 + *

Select one:

☐ a.

210

☒ b. 225

☐ c. 220

☐ d. 200

Question
5

Complete
Mark 1.00 out of 1.00

which of the following is the post order traversal of the given tree ?



Select one:

☐

a.

1 2 4 5 3

☐

b.

4 2 5 1 3

☐

c. 1 2 3 4 5

☒

d.

4 5 2 3 1

Question 6

Complete

Mark 1.00 out of
1.00

Find out the array representation of the given max heap, if the value 25 is inserted in it.

28,17,16,15,14

Select one:

☐ a.

14,15,16,17,25,28

☒ b.

28,17,25,15,14,16

☐ c.

25,28,17,15,16,14

☐ d.

28,25,17,16,15,14

Question 7

Complete

Mark 1.00 out of
1.00

Which of the following data structures is non-linear?

Select one:

☒ **a. graph**

☐ **b.**

Linked List

☐ **c.**

Stack

☐ **d. array**

Question 8

Complete

Mark 1.00 out of
1.00

Evaluate the given postfix expression.

8 4 + 4 2 3 * + 2 + *

Select one:

☐ **a. 128**

☒ **b. 144**

☐ **c. 158**

☐ **d. 162**

Question 9

Complete

Mark 1.00 out of
1.00

Which of the following Sorting Algorithm has same time complexity as $O(n \log n)$ in Best, Average and Worst Case

Select one:

☐

a.

Quick Sort

☐

b.

bubble sort

☐

c.

Insertion Sort

☒

d.

Merge Sort

Question 10

Complete

Mark 1.00 out of
1.00

Find out the array representation of the given max heap, if the value 20 is deleted from it. 22,21,20,19

Select one:

☐ a.

19,21,22

☐ b.

21,22,19

☒ c.

22,21,19

☐ d.

21,19,22