Started on Tuesday, 8 March 2022, 4:25 PM

State Finished

Completed on Tuesday, 8 March 2022, 4:32 PM

Time taken 7 mins 29 secs

Marks 5.00/5.00

Grade 100.00 out of 100.00

## Question

1

Complete

Mark 1.00 out of 1.00

A priority queue is implemented as a max-heap. Initially, it has five elements. The level-order traversal of the heap is as follows: 30, 28, 25, 23, 22 Two new elements '20' and '27' are inserted in the heap in that order. The level-order traversal of the heap after the insertion of the element is:

### Select one:

- a. 30, 28, 27, 22, 23, 20, 25
- b. 30, 28, 27, 23, 22, 20, 25
- o. 30, 28, 27, 20, 22, 23, 25
- d. 30, 28, 27, 25, 23, 22, 20

### Question

2

Complete

Mark 1.00 out of 1.00

The result evaluating the postfix expression 20 5 \* 36 9 / - 3 \* is

### Select one:

- a. 88
- b. 288
- c. 340
- d. 100

# Question

3

Complete

Mark 1.00 out of 1.00

Assume that the operators +, -,  $\times$  are left associative and ^ is right associative. The order of precedence (from highest to lowest) is ^, x , +, -. The postfix expression corresponding to the infix expression p + q  $\times$  r - m ^ n ^ o is

### Select one:

- a. pqr × + mn ^ o^ -
- b. + p × qr ^ mno
- c. pqr × + mno ^ ^ -
- d. pq + r × m n ^ o ^

# Question

Complete

Mark 1.00 out of 1.00

Consider empty Stacks S1 (Size = 4) and S2 (Size = 5) and a Queue Q1 (Size=5), perform the below given operations on S1 and Q1 alternatively and PUSH the POPed/Dequeued elements from S1 and Q1 to S2.

Stack Operations Queue Operations

- 1. Push L M A B
- 1. Enqueue P L Q S
- 2. POP 2 elements
- 2. Enqueue Y

- 3. PEEK()
- 3. Dequeue until FRONT = 4

what will be the output of POPed elements of 'S2' until S2 is empty.

### Select one:

- a.SQLPAB
- b. BALQSY
- o.BAPLQS
- od. QLPAB

# Question

5

Complete

Mark 1.00 out of 1.00

The five items: A, B, C, D, and E are pushed in a stack, one after other starting from A. The stack is popped four items and each element is inserted in a queue. The two elements are deleted from the queue and pushed back on the stack. Now one item is popped from the stack. The popped item is

Select one:

- a. B
- b. C
- c. D
- d. A

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