Unit 2 - Week 0: Prerequisite

Assignment 0

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2020-09-14, 23:59 IST.

1) Doubly linked list is required for *1 point*

- a. accessing the list to the reverse direction.
- b. accessing the list to both the forward and reverse directions.
- c. making the list circular
- d. none of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
b. accessing the list to both the forward and reverse directions.

2) Match the following:- *1 point*

I. BFS	A. Stack
II. Random access	B. Queue
III. FIFO	C. Array
IV. LIFO	D. Tree

- a. I-D, II-B, III-A, IV-C
- b. I-D, II-C, III-B, IV-A
- c. I-A, II-C, III-B, IV-D
- d. I-C, II-D, III-A, IV-B

No, the answer is incorrect.
Score: 0
Accepted Answers:
b. I-D, II-C, III-B, IV-A

3) In case of postfix notation, operators are written after their operands. *1 point*

- a. True
- b. False

No, the answer is incorrect.
Score: 0
Accepted Answers:
a. True

Read the following and answer the question that follows (Q4-Q6).

System modeling is the process of developing abstract models of a system, with each model presenting a different view or perspective of that system. It is about representing a system using some kind of graphical notation, which is now almost always based on notations in the Unified Modeling Language (UML). Models help the analyst to understand the functionality of the system; they are used to communicate with customers.

Models can explain the system from different perspectives:

1) An external perspective, where you model the context or environment of the system.

2) An interaction perspective, where you model the interactions between a system and its environment, or between the components of a system.

3) A structural perspective, where you model the organization of a system or the structure of the data that is processed by the system.

4) A behavioral perspective, where you model the dynamic behavior of the system and how it responds to events

4) System models are abstract descriptions of systems whose requirements are being analyzed *1 point*

- a. True
- b. False

No, the answer is incorrect.
Score: 0
Accepted Answers:
a. True

5) UML is based on *1 point*

- a. notation
- b. transitions
- c. states
- d. keywords

No, the answer is incorrect.
Score: 0
Accepted Answers:
a. notation

6) Which system model is being depicted by the ATM operations shown below? *1 point*

- a. Structural model
- b. Context model
- c. Behavioral model
- d. Interaction model

No, the answer is incorrect.
Score: 0
Accepted Answers:
b. Context model

7) A height balanced binary search tree is known as _____ tree.

Hint

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: String) AVL

1 point

8) Build & Fix Model' of SDLC is suitable for programming exercises of _____ LOC (Line of Code

Hint

No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: String) 100-200

1 point