

CA – 2: Syllabus & Instructions

CSE205: Data Structure & Algorithms

Syllabus

Stacks: Introduction: List and Array representations, Operations on stack (traversal, push and pop), Arithmetic expressions: polish notation, evaluation and transformation of expressions. Evaluation and transformation of expressions, Function call

Queue: Array and list representation, operations (traversal, insertion and deletion), Priority Queues, Deques

Recursion: Introduction, Recursive implementation of Towers of Hanoi, Merge sort, Quick sort

Trees: Binary trees - introduction (complete and extended binary trees), memory representation (linked, sequential), Pre-order traversal, In-order traversal, Post-order traversal using recursion

Binary Search Tree: Searching, Insertion

Important Instructions

- **Date of Conduct:** 15-Oct-2020 (Thursday)
- **Test Time:** 06:30 PM – 07:30 PM
- **Nos. of Question:** 30 Questions (with 0.25 negative for incorrect answer)
- **Total Marks:** 30

Very Important: Students are allowed late entry only for first **10 minutes (i.e. till 06:40 PM)**. System will not allow any late entry after the above mentioned time.

1. Students have to use the **URL:** myclass.lpu.in to approach the platform for the test.
2. The total duration of the Test for each course shall be 60 minutes.
3. All questions shall be displayed to the student in the **sequential order** (i.e. Q. No. 1 followed by Q. No. 2 followed by Q. No. 3 so on).
4. The display shall be one way and students **won't be able to come back to any previous question**. This means that all questions shall be displayed to the student. However, in case the student does not want to attempt a question the student can skip the question by pressing the next button but in such a case at any later stage the student won't be able to come back to that skipped question.
5. A student shall be given prefixed time allocated for a particular question monitored by a timer visible to the student to solve that question. In this regard the student should note the following:
 - a. After completion of the stipulated time allocated for a question or after successfully attempting the question the student shall be moved to the next question.
 - b. Time saved for a particular question shall not be available for the upcoming questions.
 - c. The webcam of the student shall remain on throughout the academic task.
 - d. The students are not allowed to navigate away from the academic task window. The change in tab, browser or window may lead to the termination of the academic task with auto submission. No further chance to reappear in the academic task shall be given in all such cases.
 - e. In case a student is found using any unfair means during the academic task including calling, messaging, using any other device, the same shall be treated as an unfair means case and necessary disciplinary action shall be taken.