Code No. E-5779/N/AICTE

FACULTY OF ENGINEERING

B.E. (CSE) V - Semester (AICTE) (Main) (New) Examination, February/ March 2023

Subject: Object-Oriented Analysis and Design (P.E-I)

Time: 3 Hours **Max. Marks: 70**

Note: (i) First question is compulsory and answer any four questions from the remaining six questions. Each questions carries 14 Marks.
(ii) Answer to each question must be written at one place only and in the same order as they occur in the question paper.
(iii) Missing data, if any, may be suitably assumed.

1. a) Define Requirements and mention their types.
   b) Give the meaning of Event, State, and transition.
   c) Illustrate the Relationships used in the class diagram.
   d) Give the GOF design patterns.
   e) What are the types and categories of requirements?
   f) Define GRASP responsibilities.
   g) What are the steps for mapping designs to code?

2. Write briefly about elaboration and discuss the differences between Elaboration and Inception with examples.

3. Explain about Unified process phases with proper example(s) and diagram(s).

4. Explain the Logical Architecture and UML Package Diagram.

5. Explain GRASP: Designing objects with responsibilities.

6. Explain the concept of the Domain model with an example.

7. Model a class diagram for a library management system. State the functional requirement to be considered.

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