FACULTY OF ENGINEERING
BE (I.T) VI – Semester (AICTE) (Main & Backlog) Examination, September/October 2022

Subject: Object Oriented Analysis & Design (P.E. – III)

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

(Missing data, if any, may be suitably assumed.)

PART – A

Note: Answer all the questions.   **(10 x 2 = 20 Marks)**

1. What is modeling? What are the advantages of creating a model?

2. Write the advantages and disadvantages of forward and reverse engineering?

3. Give examples for activity state, action state.

4. Differentiate between process and thread with example.

5. Define Design pattern?

6. What are artifacts?

7. What are benefits of unified process? Explain.

8. Write the difference between Iteration and Increment process.

9. What is Business Modeling?

10. What are the four important properties of components?

PART – B

Note: Answer any five questions.   **(5 x 10 = 50 Marks)**

11. Discuss in detail about the various types of things in Building blocks of UML.

12. (a) What are activity diagrams? Discuss the concepts related to it with examples.
    (b) Explain about states and Transitions of state machines.

13. Explain any two design-patterns that can be used in designing object oriented systems.

14. (a) Describe the Unified software development process, with a neat diagram.
    (b) Explain about the risk management and metrics of a project.

15. Explain how to capture the requirements as use-cases with a step-by-step process.

16. (a) Describe the basic structural modeling elements in system development.
    (b) What is object diagram? What are common modeling techniques of object diagram?

17. Discuss about analysis workflow in detail with a suitable example.

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