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Total No. of Questions: 09

Total No. of Pages: 02

MCA (Sem. 5)

OBJECT ORIENTED ANALYSIS & DESIGN WITH UML

Subject Code: MCA-504

Paper ID: 74384

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

1. Attempt any ONE question (carrying 10 marks) each from Section A, B, C and D.
2. Section-E is COMPULSORY carrying TWENTY marks.

SECTION A

1. What are the features of Interaction Modeling? Give suitable examples.
2. What do you mean by the term 'Object Oriented'? What are the advantages of OO modeling?

SECTION B

3. What is the role of Software Requirements in the SDLC process? How is SRS created?
4. Describe the System Design process in detail. How are conditions and priorities incorporated in the Design process?

SECTION C

5. Design a UML diagram for the working of Fee collection of your college/university. Label the diagrams neatly.
6. What are the components of UML? What are the features of each of those components?

SECTION D

7. Write a note on the open source tools available for UML design.
8. What do you mean by Structured Analysis and Structured Design? What are the basic principles for creating a user centric design?

SECTION E

9. Write short notes on:
- a) Association and Aggregation in classes
 - b) Jackson Structured Development (JSD)
 - c) Concurrency in State Modeling
 - d) Steps in SDLC
 - e) Example of Use cases
 - f) Advantages of Inheritance in classes
 - g) Uses of Sequence Diagram
 - h) Abstraction principle
 - i) Reusability in Design
 - j) System Testing Process