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Total No. of Questions: 09

MCA (2015 & Onwards) (Sem.-5) OBJECT ORIENTED ANALYSIS & DESIGN WITH UML

Subject Code: MCA-504 M.Code: 74384

Time: 3 Hrs. Max. Marks: 60

INSTRUCTIONS TO CANDIDATES:

- 1. SECTIONS-A, B, C & D contains TWO questions each carrying TEN marks each and students have to attempt any ONE question from each SECTION.
- 2. SECTION-E is COMPULSORY consisting of TEN questions carrying TWENTY marks in all.

SECTION-A

- 1. What are the features of Object Oriented Design? How is it better than traditional design approach?
- 2. How is the Class Modeling technique different from State Modeling? Explain the concepts of Inheritance in classes.

SECTION-B

- 3. Which design patterns are considered while designing a System? How are these patterns incorporated in the design process?
- 4. What are the various SDLC models? What is the importance of software requirements phase in the models?

SECTION-C

- 5. How are activity diagrams different from Interaction diagrams? Describe with the help of an example.
- 6. What are the advantages of using UML? Which features of UML make it the best choice for OO designing?

SECTION-D

- 7. How are the following principles implemented in OO development style:
 - a) Robustness
 - b) Re-usability
 - c) User friendly design

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8. What do you mean by Reverse Engineering? When and why is it used in OO design process?

SECTION-E

9. Write short notes on:

- a) Structured Analysis
- b) Risks in Use-case model
- c) Benefits of Inheritance
- d) Class diagram and Object Diagram
- e) Information Modeling Notations
- f) Features of Plant UML
- g) Difference between Interaction diagram and Activity diagram Sukerick
- h) Data Abstraction with example
- Domain Analysis
- j) Generalization and Aggregation WAN LE

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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