Code: 17F00401

MCA IV Semester Regular Examinations May 2019

OBJECT ORIENTED ANALYSIS & DESIGN

(For 2017 admitted batches only)

Time: 3 hours Max. Marks: 60

Answer all the questions

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1 (a) Describe the attributes of a complex system.
(b) Explain role of abstraction and role of hierarchy.

OR

2 (a) Explain OOP, OOD and OOA.
(b) What do you mean by hierarchy? Demonstrate hierarchy using single & multiple inheritance and aggregation.

3 (a) List kinds of object relationships and explain with examples.
(b) Explain in detail the process of measuring quality of an abstraction.

OR

4 (a) Explain behavior analysis and domain analysis approaches for object oriented system analysis.
(b) Discuss in brief about key abstractions and mechanisms.

5 (a) Explain common mechanisms applied in UML.
(b) Explain modeling structural relationships with example.

OR

6 (a) Discuss the behavioral diagrams used to handle dynamics of designing a system.
(b) Explain with example, modeling a logical database schema.

7 (a) Explain names, owned elements and visibility with respect to packages.
(b) What is the significance of ports? Demonstrate their usage for components.

OR

8 (a) Explain modelling an embedded system with sketch.
(b) Explain with neat diagram modelling a fully distributed system.

9 (a) What is use-case diagram? Explain modelling the context of a system with the help of use-case diagram.
(b) Considering a relevant example, explain transition in state machine.

OR

10 (a) Demonstrate modelling flow of control by time-ordering with suitable example.
(b) Explain time and location with respect to model a system.

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