

Roll No.

Total No. of Questions : 08]

[Total No. of Pages : 02

M.Tech.

OBJECT ORIENTED ANALYSIS & DESIGN USING UML

SUBJECT CODE : CS - 512 (Elective - I)

Paper ID : [E0581]

[Note : Please fill subject code and paper ID on OMR]

Time : 03 Hours

Maximum Marks : 100

Instruction to Candidates:

- 1) Attempt any **Five** questions.
- 2) **All** questions carry equal marks.

Q1) What do you mean by object oriented analysis and design? Discuss in detail the object oriented analysis and design process with a suitable example.

Q2) What is UML and its need? Name basic building Blocks of UML? Discuss in detail the object architecture of UML.

Q3) What do you mean by advanced structural modeling? How it is different from basic structural modeling. Discuss in detail the various tools used in basic structural modeling.

Q4) (a) What is Collaboration diagram and its need? Take an example problem and draw the Collaboration and Sequence diagram for the same.

(b) Differentiate between the following:

- (i) Interaction and Activity Diagrams
- (ii) Scenario and Use case

Q5) Discuss in detail the modeling techniques for component diagrams.

Q6) Differentiate between the following:

- (a) Process and Thread
- (b) Signal and Event
- (c) State Machines and State Chart Diagrams
- (d) Time and space

Q7) What is behavioural Modelling. How it is different from structural modeling? Explain in detail the role of Behavioral diagrams in Software development Life cycle.

Q8) Write Short Notes on the following:

- (a) Principles of Modeling
- (b) Deployment Diagrams

