M. Sc. (Computer Science) 3rd Semester Examination – 2019 (DDE)

Subject: Computer Science

Paper: MCS – 301 (Object Oriented Analysis and Design)

Full Marks: 22¹/₂

Time: 1 Hour

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Answer question number 1 and any three questions from the rest.

1)	Write short note <i>on any one (1)</i> of the following:	71⁄2
	a) Different types of diagrams as per $UML - 1$ specification.	
	b) Four (4) steps that are followed in Java for initialization of instance variable	s.
2)	Briefly explain role, responsibility and behavior models in OOAD. 5	
3)	What are actor, reactor and agent in OOAD? Explain.	5
4)	Briefly explain association, aggregation and composition in OOAD with suitable diag	ram. 5
5)	Draw Use Case Diagram for a typical ATM (Automated Teller Machine).	5
6)	Explain methods for initializing arrays in Java with suitable examples.	5