Hall Ticket No:						Question Paper Code: 14DMCA113-M1

## MADANAPALLE INSTITUTE OF TECHNOLOGY & SCIENCE, MADANAPALLE

(UGC-AUTONOMOUS)

MCA (2Y) II Year I Semester (R14) Supplementary End Semester Examinations – June 2018 (Regulations: R14)

## **OBJECT ORIENTED ANALYSIS AND DESIGN (USING UML)**

Time	: 3Hrs Max Marks	s: 60
P	Attempt all the questions. All parts of the question must be answered in one place only In Q.no 1 to 5 answer either Part-A or B only	<b>'.</b>
Q.1(A)	<ul><li>(i) Illustrate that, how objects respond to messages?</li><li>(ii) Explain hierarchy of classes with inheritance and polymorphism.</li></ul> OR	6+6
Q.1(B)	<ul><li>(i) Discuss the orthogonal view of the software.</li><li>(ii) What are the reasons for moving from traditional techniques to object oriented techniques?</li></ul>	6+6
Q.2(A)	<ul><li>(i) How design patterns are classified?</li><li>(ii) Explain about mediator design pattern with suitable example.</li><li>OR</li></ul>	4 + 8
Q.2(B)	(i) Why modeling is required? Compare the static and dynamic models. (ii) Explain briefly about different UML diagrams.	6+6
Q.3(A)	(i). Why analysis is a difficult activity during software development? (ii). How to develop an effective documentation of a project?  OR	6+6
Q.3(B)	Explain about how classes are identified by following approaches: (i). Common class pattern approach (ii). Use case driven approach	6+6
Q.4(A)	Draw and Explain the two interaction diagrams for the following operations in a library.  (i). Issuing of book  (ii). Renewal of Book	6+6
	OR	
Q.4(B)	With a suitable example, Draw and Explain the following diagrams: i. Sequence Diagrams ii. Collaboration Diagrams	6+6
Q.5(A)	<ul><li>(i) Discuss the impact of object orientation on testing.</li><li>(ii) What are the guidelines for providing quality assurance test cases?</li></ul> OR	6+6
Q.5(B)	Explain clearly about the various testing strategies in detail with suitable examples.	12M

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