Code No.: 20432

MALLA REDDY ENGINEERING COLLEGE (AUTONOMOUS)

(Affiliated to JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD)
Maisammaguda, Dhulapally, (Post Via kompally), Secunderabad-500 100.

IV B.TECH I SEM SUPPLEMENTARY EXAMINATIONS, APRIL - 2017

SUBJECT: VLSI Design

(BRANCH: IT)

Max Marks:75 Time: 3 Hours $5 \times 15 = 75M$ Answer any 5 questions [7M] 1. a) Explain the CMOS technology with n well process? b) Write briefly the comparision between CMOS and Bipolar Technology? [8M] [7M] 2. a) Explain the Bi-COMS Inverter with neat sketches b) Explain the importance of pull up transistor and the difference between different pull up transistor [8M] [**7M**] 3. a) Design a stick diagram for equation $Y = \overline{((AB) + C)}$ b) Design a layout for $Y = \overline{AB} + C\overline{D}$ by using CMOS Schematic's. [8M] [8M] 4. a)Design the stick diagram for EX-OR gate b) Design the OR gate layout [7M] 5. Design a counter for following specifications and write the equivalent pseudo code. When device lock frequency =50 MHz. Derive the device to work for 125 KHz load [15M] circuit [8M] 6. a) Explain the out bit DRAM b) Explain the serial Access Memories wit neat sketches [7M] [8M] 7. a) Explain the parameters which are influencing low power design. [7M] b) Design the PLA for the following functions? $F_1 = \Sigma (1,2,5,7,9) + \varphi(13,15)$ $F_2 = \Sigma (3,4,7,8,11) + \varphi(11,12)$ $F_3 = \Sigma (1,2,3,4,9,10) + \varphi(6,7)$ 8. a) Explain any one of the technique of system-level test technique [8M] [7M] b) Explain the need of testing

[10+5]

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IV B.TECH I SEM SUPPLEMENTARY EXAMINATIONS, APRIL - 2017

SUBJECT: Object Oriented Analysis And Design

(BRANCH: IT)

	(Divition, 11)	
Time:	3 Hours	Max Marks:75
Answer any Five Questions 5x		5x15=75
1.	(a) What do you mean by component? What is the difference between component	and classes?
	(b) What are different kinds of components? Explain.	[8+7]
2.	Discus briefly about the UML diagrams which can be used to model the behavior system.	al aspects of a [15]
3.	State and explain the common modeling techniques of class diagram. Give approp	priate examples. [15]
4.	(a) Why is it necessary to have a variety of diagrams in model of a system?	
	(b) Write short notes on Forward & Reverse engineering in use case diagrams.	[7+8]
5.	Give activity diagram for Library management.	[15]
6.	(a) Draw the object interaction for unified library application.	
	(b) List the events and signals in unified library application.	[7+8]
7.	Write a short note on components, classes and interfaces.	[15]
8.	(a) Explain the case study use case diagram for library management.	

(b) Explain the activity diagram