Enrolment No:

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LDRP INSTITUTE OF TECHNOLOGY AND RESEARCH, GANDHINAGAR DEPARTMENT OF ELECTRONICS AND COMMUNICATION B.E. 4th SEMESTER MID SEMESTER EXAMINATION - 2015

	ode: EC-404 Microprocessor ar 3/2015	nd Interfacing Total Marks: 30 Time: 12:00 to 1:30	PM
Instructions: - All questions are compulsory Figures to the right indicate full marks Make suitable assumption, wherever necessary.			
Que. 1 A) B)	Answer the following question. Explain 8085 Addressing Modes with examples. Explain the following Instruction:		(08) (03) (03)
C)	1)XTHL 2) DAD SP Identify the register contents and the flag status as the following instructions are executed A S Z CY		
	LXI H,2070H MVI M,64H MVI A,8FH CMP M		
Que. 2	ue. 2 Answer the following questions.		
A) B)	-	n Pin diagram of 8085. of addition of two numbers with ADD and ADI Instruction OR	(05) as. (05)
Que. 2	Answer the following questions.		(10)
A) B)	Draw and explain Timing diagram of MVI A,10H. Draw and explain Demultiplexing of AD7-AD0 lines.		
Que. 3	Answer the following questions. What is subroutine? Explain call and RET instruction with suitable examples.		
B)	Calculate the total time delay in the following program to load register pair BC with 0000H and also calculate the loop delay if the system clock frequency is 3.072MHz(Adjust for the Last cycle.)		
	LXI B,2384H LOOP: DCX B MOV A,C ORA B JNZ LOOP	10Tstate 6 Tstate 4 Tstate 4 Tstate 10/7 Tstate	
Que. 3	OR Answer the following questions.		
A) B)	Explain the 8255 block diagram and modes. Explain the stack related Control Instruction (Any three Instruction)		(06) (06)

*****Best of Luck****