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KADI SARVA VISHVAVIDHYALAYA LDRP INSTITUTE OF TECHNOLOGY & RESEARCH, GANDHINAGAR. B.E. SEM VI (ELECTRICAL) MID SEMESTER EXAMINATION FEB-2015

Date : 03/03/2015 Subject Name: Microcontroller & their Applications

Duration: 12:00 to 13:30 Max. Marks: 30

Attempt all questions

Draw appropriate diagram wherever necessary.

Figure on right indicates full marks.

Q-1(A)	Describe RAM memory in 8051 microcontroller. Explain different parts of it.				
Q-1 (B)	Give difference between RISC and CISC Architecture.				
Q-2 (A)					
Q-2 (B)	Write an 8051 C program to convert packed BCD 0x29 to ASCII and display the bytes on P1 and P2.	5			
	OR				
Q-2 (A)	Discuss the results you will get after the execution of following program. #include <reg51.h> void main (void) { P0=0x35 & 0x0F; P2=0x54 ^ 0x78; P1=0x04 0x68; P0= ~0x55; P2=0x77 >> 4; }</reg51.h>	5			
Q-2 (B)	Write an 8051 C program to toggle bit D0 of the port P1 (P1.0) 50,000 times.				
Q-3 (A)	Explain PSW and function of all the bits.				
Q-3 (B)	Write an assembly language program to add 8 bit numbers 95H and B6H. Show the status of parity and auxiliary carry after the execution of the code.				
0.2(4)	OR	-			
Q-3 (A) Q-3 (B)	Explain the operation by using PUSH and POP instruction. Write an assembly language program to generate 5ms delay by using 8051 system of 12MHz.	5			

BEST OF LUCK		