## MANIPAL UNIVERSITY JAIPUR SCHOOL OF COMPUTING AND IT

## IV Semester B.Tech - Second Sessional Examination (2017-18) Branch: CSE / IT /CCE

## CS1403- Microprocessor and Microcontroller (MPMC) (CLOSED BOOK)

uration: 1 hour	Max. Marks:
nstructions:	
All questions are compulsory.	
Missing data if any may be assumed suitably.	
1. Write a program to convert the lower case 10 to stored at 52333h to upper case.  Note: the upper case string must be stored at 52333h	
2. Write a procedure (PROC) to calculate Addition MACRO to subtract 2 numbers. Also explain on the	
3. A programmer wants to create his own interrupt result obtained after performing addition into even to Note: assume the physical address of ISR 34h and process of interrupt execution (including calculation)	number. explain the complete
4. Using assembler directives, perform the following to a create a stack of 100 words (Use SEGMENT and b. create a name STACK_TOP for the top of above with Top of the stack(Last element).	l ENDS directive)
5. Configure the 8259A master IC with 8086 processes slaves contacted at IR1, IR2, IR4 and IR 7) for the auto EOI, edge triggered, fully nester, near buffer the remaining pins of master IC (other than the IR Note: write only command words (with explanation	e interrupt type 15h in red mode. Also mask pins having slaves)