EXTPA

V.P & R.P.T.P SCIENCE COLLEGE
V.V.NAGAR
T.Y.B.Sc.(6 th sem.)Internal test
Subject:-8-bit microprocessor programming

Date: 12/03/2014   Time: 3:30 to 5:00pm
Subject code: US06CELE03   Total Marks: 30

Q-1   **Short answer type questions. (attempt any three)**   [6]
(1)   Define counter and time delay.
(2)   Define STACK and subroutine.
(3)   State different techniques of dynamic debugging.
(4)   Which instructions are used to retrieve the data from the stack?
(5)   List the instructions related to stack.
(6)   Define RAR and RLC instructions.

Q-2   Explain different techniques used for debugging program.   [8]
                                    OR
Q-2   Discuss different arithmetic instruction related to memory with illustrations.   [8]

Q-3   Discuss different conditional and unconditional CALL and RET instructions   [8]
        of 8085 system with necessary illustrations.
                                    OR
Q-3   Write a program to count continuously in hexadecimal from DE_H to 00_H in a   [8]
        system with 1microsecond clock period . Set up a time delay of 1.5
        millisecond between each count. Display the count at output port.(take no. of
        loop T-state=14)

Q-4   Write a program to convert a BCD number stored in memory to its   [8]
        equivalent Binary number and save the answer in output buffer memory.

                                    OR

Q-4   Write a program to convert a Binary number stored in memory to its   [8]
        equivalent BCD number and save the answer in output buffer memory.

*** ALL THE BEST ***