VITHALBHAI PATEL & RAJRATNA P.T. PATEL SCIENCE COLLEGE
VALLABH VIDHYA NAGAR

T.Y. B.Sc. SEM: IV **INTERNAL TEST** **DATE: 03th Oct. 2013**
SUB: ELECTRONICS **TIME: 3:30 pm to 5:00 pm**
SUB CODE: US05CELE03 **TOTAL MARKS: 30**

Q. 1 Choose the correct answer. **[06]**

(1) 8085 is _____ pin chip.
- (A) 12
- (B) 40
- (C) 24
- (D) None of above

(2) _____ Section of 8085 decode instruction machine code.
- (A) Accumulator
- (B) Instruction decoder
- (C) ALU
- (D) None of above

(3) Following are control signal of 8085
- (A) S_0 and S_1
- (B) RESET OUT
- (C) WR and RD
- (D) None of above

(4) _____ is data transfer instruction.
- (A) JMP
- (B) MVI
- (C) ADI
- (D) None of above

(5) An instruction consist of _____ .
- (A) Machine code
- (B) Op code and Operand
- (C) Binary code
- (D) None of above

(6) _____ is machine control instruction.
- (A) JMP
- (B) HLT
- (C) XRI
- (D) None of above

Q.2 Answer the following in short.(Attempt Three, each two marks) **[06]**

(1) List pins of interrupt control section of 8085.
(2) State function of ALU.
(3) Define 2-bytes instructions.
(4) State characteristics of logical instructions.
(5) Differentiate between assembly language and machine language program.
(6) What is a logical instruction? State difference logical instructions.

Q.3 Draw block diagram of 8085 system and briefly discuss function of important sections of it. **[06]**

OR

Q.3 Define bus timing. Discuss concept of bus-timing with necessary diagram. **[06]**

Q.4 Discuss the method of writing assembling and executing a program in 8085 giving and example. **[06]**

OR

Q.4 Discuss classification of different instructions according to word size giving necessary illustration. **[06]**

Q.5 Describe different arithmetic instructions of 8085 giving example of each. **[06]**

OR

Q. 5 (A) Write a program to load two hex-decimal number 8B H and 6F H in two different registers. Now increment the content of first register by one than add these numbers and display final sum at output PORT 1. **[04]**

(B) Register B has 65 H and the accumulator has 97 H. Write instruction to subtract the content of reg. B from Accumulator. Indicate the flag status of result. **[02]**

- : All the best: -