S.B. Roll No…………………………….

MICROPROCESSOR
4ʳᵈ Exam/ECE/ETV/EMP/Comp/IT/EEE/ECE(II)
/6129/2565/0624/2562/6164/6269/May`2015

Duration : 3hrs   **M.Marks: 75**

Section-A

Q1 (i) **Fill in the blanks** :   1.5x10=15
   (a) EPROM stands for................
   (b) 8085 has……………. Basic instructions.
   (c) …………..instruction is used to load 16 bit number.
   (d) …………………is the highest priority interrupt.
   (e) RST stands for...................

(ii**) Do as directed**
   (f) A programmable device similar to CPU of computer is known as
       (1) Central processing unit   (2) microprocessor
       (3) Microcomputer   (4) PLA
   (g) The address bus of 8085 is 16 bit and hence the memory which can be accessed by this address bus is
       (1) 112k   (2) 4k
       (3) 16 k   (4) 64 k
   (h) A state during which nothing happens is known as
       (1) STA   (2) NOP
        (3) STC   (4) opcode
   (d) Mov A, B has
       (1) 1 machine cycle   (2) 2 machine cycle
       (3) 3 machine cycle   (4) 4 machine cycle
   (i) Which of the following is not present in 8085
       (1) PORT A   (2) PORT C
       (3) PORT B   (4) ALU

Section –B

Note: Attempt any 5 questions :   6x5=30
Q.2.   i.   Explain the various steps involved in execution of program?
           ii.   How interrupt are handled in 8085 ?
           iii.   Differentiate between programmed I/O & Interrupt driven I/O ?
           iv.   Discuss various addressing mode of 8085?
           v.   Explain various function blocks of microprocessor ?
           vi.   Explain the timing diagram ofMVI A data ?
           vii.   Write a assembly language program to two`s compliment the 8 bit number?

Section –C   10x3=30
Note: Attempt any three questions :
Q3   Explain the pin out Diagram of 8085 and explain functions of each pin?
Q4   Compare the important feature of z80, 6800, 8085 processor?
Q5   Write a short note on ?
    (a) 8253   (b) 8251
Q6 Explain stack and its function?
Q7 Explain the following?
    (a) Instruction cycle   (b) machine cycle (c) t state
     (d) Fetch cycle   (e) execute cycle