AC-3066
Second Year B. Sc. (Sem. IV) Examination
April / May – 2015
Applied Electronics : Paper - IV
(Advance Microprocessor)

Time : 2 Hours] [Total Marks : 50
Instructions :
(1) Figures on the right indicate full marks
(2) All symbols and abbreviations have their usual meaning.
(3) Non-programmable calculators are allowed.
(4) Q.1 is compulsory.
(5) Assume data, if necessary.

1 Answer in short:
(a) What is meant by Maskable interrupts?
(b) What is the position of the Stack Pointer after the PUSH instruction?
(c) What is stack?
(d) What is Instruction Set?

2 (a) Explain the instruction format of 8086 for data transfer instructions.
(b) Explain Instruction:

(i) AAS    (ii) IN AL,DX

OR

2 (a) Explain memory organization of 8086.
(b) Write an 8086 ALP to add two 16-bits in CX and DX and store the result in location 0500H addressed by DI.

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3. (a) What is the purpose of segment registers in 8086?
   (b) Explain Pins of 8086:
       (i) NMI  (ii) READY
       OR
3. Describe Intel 8086 Microprocessor Architecture.

4. Write short notes on: (any two)
   (a) Control and command word of 8259
   (b) Rotate Instructions
   (c) Immediate Addressing Mode
   (d) Subroutine.