AC-3072
Second Year B. Sc. (Sem. - IV) Examination
April / May – 2015
Electronics for Computer Science : Paper - IV
(Advance Microprocessor)

Time : 2 Hours] [Total Marks : 50
Instructions :
(1) Fill up strictly the details of signs on your answer book.
Name of the Examination :
SECOND YEAR B. SC. (SEM. - IV)
Name of the Subject :
ELECTRONICS FOR COMPUTER SCI. : PAPER - IV
Subject Code No. : 3072 Section No. (1, 2, ....) : NII

(2) figure on the right indicates full marks
(3) All symbols and abbreviations have their usual meaning.
(4) Non-programmable calculators are allowed.
(5) Q.1 is compulsory.
(6) Assume data, if necessary.

Q.1 Answer in short:
(a) List some of the features of INTEL 8086.
(b) What is an instruction cycle?
(c) What are the flags in 8086?
(d) What is a stack?

Q.2
(a) Explain the addressing modes of 8086 with example.
(b) Explain the instructions: (i) INC SI (ii) XOR AL,CL

OR

Q.2
(a) How many operating modes does 8086 have? Discuss them in brief.
(b) Features of the 8259.

Q.3
(a) Illustrate with examples, the instructions CALL and RET.
(b) Discuss the function of instruction queue in 8086?

OR

Q.3
(a) What is interrupt? Explain various interrupts of 8086 in detail.
(b) Write the ALP to find sum of numbers in the array.

AC-3072] 1 [Contd....
Q.4 Write short note on (Any TWO)
(a) Functional units of the 8086
(b) Operating modes of 8259
(c) Branch instructions of the 8086
(d) Division instructions of the 8086