xv) Compare I/O mapped I/O and memory mapped I/O.

SECTION-C

Note: Long answer type questions. Attempt any three questions.   3x10=30

Q.3   Explain the salient features of pentium processor.

Q.4   Draw and explain PIN configuration of 8086 microprocessor.

Q.5   Write a program for addition of two 16-bit numbers.

Q.6   What are the different types of interrupts in 8086? Explain in detail.

Q.7   Draw and explain the block diagram of 8051.

5th Sem. / Eltx.

Subject : Advanced Microprocessors

Time : 3 Hrs.   M.M. : 100

SECTION-A

Note: Very Short Answer type questions. Attempt any 15 parts.   (15x2=30)

Q.1   a)   Write a 8086 instruction to move 32H to register AL.

b)   Data Bus.

c)   Assembler.

d)   Base Pointer.

e)   Expand BIST.

f)   Define Multiplexer.

g)   Mention the two units of 8086.

h)   What is an interrupt?

i)   What is the size of data bus in 8086?

j) Mention the two modes in which 8086 operates.

k) ALU.

l) 8088 uses _____ bit wide data bus.

m) How many pins are there in 8086 microprocessors?

n) What is the maximum possible size of a segment?

o) Register Addressing Mode.

p) CISC.

q) PSW.

r) INTR.

SECTION-B

Note: Short answer type questions. Attempt any ten parts   10x4=40

Q.2 i) What is Flag Register? Explain different flags USEO in 8086 microprocessor?

ii) Explain maximum mode of operation.

iii) Write a short note on segmentation.

iv) What is DMA?

v) Write a program for subtraction of two numbers.

vi) Give examples of arithmetic instruction in 8086.

vii) List the segment registers of 8086.

viii) Explain the 8086 address and data bus concept.

ix) Give general features of 8051.

x) Explain pins ALE and RST OF 8051.

xi) Explain the use of overflow interrupt.

xii) What are addressing modes? Give types of addressing modes used in 8086?

xiii) Write a note on bus interface unit.

xiv) What is data acquisition system?