(DCS 226)

B.Tech. DEGREE EXAMINATION, MAY - 2015

(Examination at the End of Second Year)

COMPUTER SCIENCE

Paper - VI : Microprocessors

Time : 3 Hours **Maximum Marks : 75**

Answer question No.1 compulsory ***(15)***

Answer ONE question from each unit ***(4 × 15 = 60)***

1) a) Define procedures?

b) Write different types of flags?

c) Define DMA.

d) Define Interrupts?

e) What is Macros?

f) Explain about while – Do implementation.

g) Define Assembler?

h) What is debugging.

UNIT – I

2) a) Draw the architecture of 8086 micro processor and explain about each block.

b) Write an ALP to divide a 16 bit number with a 8 bit number and store the result in memory.

OR

3) a) Write an ALP to convert packed BCD to ASCII.

b) Write an ALP to perform addition of two 16 bit numbers.

UNIT - II

4) a) Write the differences between procedures and macros and explain them with suitable examples.

b) Explain if –then else statement with suitable examples.

OR

5) a) What are the logical instructions and explain them with examples.

b) What are the Assembler directives.

UNIT - III

6) a) Explain about addressing a Memory and ports in Micro computer system.

b) Explain 8086 hardware review.

OR

7) a) Define Interrupt vector Table? Draw and explain interrupt vector table.

b) Explain Hardware interrupt applications.

UNIT - IV

8) a) Explain the DMA transfer.

b) Explain 8086 maximum mode of operation.

OR

9) a) Explain Interfacing of Dynamic RAM.

b) Write short note on 80186 Processor.

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