CODE NO:C32075

2005 CALICUT UNIVERSITY

B.TECH INFORMATION TECHNOLOGY

HARDWARE SYSTEN DESIGN

DECE 2005

TIME: 3 HOUR
MAXIMUM MARK :80

ANSWER ALL QUESTIONS

1.a) what are the spatiality of CMOS RAM

b) compare 8086 and 8088.

c) what is meant by interrupt books?

d) what is meant by memory paging?

e) list all modes of 8254.

f) list the features of pentium pro.

g) what is DMA? give brief explanations.

h) write short note on PCI bus.

2.a i) compare 80386 and 80486 with the difference in architecture.

ii) what are the different types of interfaces give examples?

OR

b i) what is meant by BIOS?

ii) explain the various parts of a PC mother board.

3.a i) explain the addressing modes of 8086 with one example each.

ii) compare 8086 and 8085.

OR

b i) list all arithmetic instructions of 8086.

ii) explain real mode and protected mode memory addressing.

4.a i) explain with a neat sketch the working of 8279 keyboard display interface.

ii) what are the features of dynamic ram.

OR

b i) explain the working of a PPI(8255)

ii) draw the diagram of the interfacing of an ADC to 8086.

5.a i) explain the working of 8237 DMA controller.

ii) write short note on video displays.

OR

b i) explain the working of 8259 interrupt controller.

ii) what are the different classifications of interrupts.

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