Name..

FOURTH SEMESTER B.TECH. (ENGINEERING) DEG EXAMINATION, JUNE 2003

CS. 2K/IT. 2K. 406. HARDWARE SYSTEM DESIGN

Time : Three Hours

Maximum: 100 Marks

Answer all questions.

- What are the functions of Network Interface Card? (b)
 - What is a ROM-BIOS ? What it does ?
 - Distinguish Real and Protected mode. (c)
 - How files are stored in a disk? (d)
 - (e) Describe 8279 chip.
 - Distinguish Static and Dynamic RAM. (f)
 - Explain the concept of cycle stealing DMA operation.
 - Distinguish EISA and VESA Bus features. (h)

II. Distinguish MIN/MAX mode of operation of 8086. Draw the relevant diagrams and

Or

- Draw the Bus timing showing address latching, Ready and wait states in an Intel
- III. What is a stack? How stack works? Explain with various examples the status of

Or

- How a keyboard can be connected to a processor? Draw diagrams and explain the
- IV. What is a timer? How it works? Draw 8254 timer interface and explain its working

Or

- How an A/D convertor works? Draw a typical ADC interface and explain its proper
- What are Hardware interrupts ? Draw 8259A PIC block diagram and explain its V.

Or

(b) How a video display works? Draw diagram of video display interface and explain its