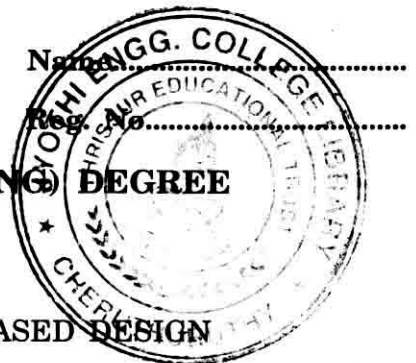**C 61591**

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FOURTH SEMESTER B.TECH. (ENGINEERING) DEGREE EXAMINATION, APRIL 2014

(2009 Scheme)

IT/CS 09 406/PTCS 09 405—MICROPROCESSOR BASED DESIGN

Time : Three Hours

Maximum : 70 Marks

Part A

Answer all questions.

1. What is the function of BIOS ?

2. What are interrupt hooks ?

3. What are the features of DRAM ?

4. What is the need for address decoding in memory interface ?

5. Where ISA bus is used ?

(5 × 2 = 10 marks)

Part B

Answer any four questions.

1. What is a modem ? Describe its function.

2. Write a program to find the average of three numbers.

3. With a figure, explain how DAC interface works ?

4. What is modular programming ?

5. Write about hardware interrupts.

6. Discuss the operation of VESA bus.

(4 × 5 = 20 marks)

Part C

Answer all questions.

1. Explain the components present inside the motherboard of a PC.

Or

2. Explain the features of 80486 pentium processor.

3. Discuss in detail about addressing modes.

Or

4. Explain in detail about Program memory addressing and Stack memory addressing.

Turn over

5. Explain the memory decoding circuit of 8086 processor.

Or

6. Explain about the working of 32 bit(80486) pentium memory interface.

7. Describe any *one* mode of operation of 8259A.

Or

8. Discuss the operation of EISA bus.

(4 × 10 = 40 marks)