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Name

Reg. No··················

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, JANUARY 2006

Computer Science

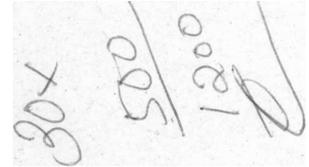CS 105—ADVANCED MICROPROCESSOR

(2005 Admissions)

Time : Three Hours

Maximum : 80 Marks

Part A

Answer any **five** *questions.*
Each question carries 8 *marks.*

1. What are buses ? Explain the function of different buses.
2. Discuss arithmetic and control instructions of Microprocessor 8085.
3. What is DMA ? Explain how a DMA improves the performance of a Processor.
4. Write a programme in 8086 to perform an unsigned 16-bit by 16-bit multiplication via repeated addition.
5. Explain Video modes and attributes.
6. Discuss the superscalar architecture of Pentium Microprocessor.
7. Describe subprograms.

(5 x 8 = 40 marks)

Part B

Answer any **four** *questions.*
Each question carries 10 *marks.*

8. Draw the block diagram of Intel 8086 microprocessor and explain in detail.
9. What are flag registers ? Explain the different types of flags in 8086 with examples.
10. Describe BIOS in detail.
11. Compare the features of 80486 and Pentium processor.
12. Describe disk organization.
13. Explain in detail the features of Motorola processor.

(4 x 10 = 40 marks)