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Name.....

Reg. No.....

FIRST SEMESTER M.Sc. DEGREE EXAMINATION, JANUARY 2006

Computer Science

CS 103—COMPUTER ORGANIZATION

(2004 and earlier Aadmissions)

Time : Three Hours Maximum : 60 Marks

Part A

Answer any **five** *questions.*
Each question carries 3 *marks.*

1. List out the characteristics of signed magnitude number representation.
2. What do you mean by Decoders ? Why are they used ?
3. Give the various addressing modes that are being used.
4. Briefly explain the importance of Interrupts.
5. Why Ram is known as main memory ? Explain.
6. What is an assembler ? Why is it necessary ?
7. Describe the utility of traps.

(5 x 3 = 15 marks)

Part B

Answer any **three** *questions.*
Each question carries 15 *marks.*

8. Describe in detail the history of the generation of computers.
9. Explain with necessary block diagrams how serial and parallel adders are implemented. Illustrate their working also.
10. Discuss on the various steps needed in the execution of a typical instruction. Explain each step in detail.
11. Give an overall view on memory hierarchy. Explain each *one* in detail.

(3 x 15 = 45 marks)