Register Number:

Name of the Candidate :

6621

B.Sc. DEGREE EXAMINATION, 2008

(COMPUTER SCIENCE)

(SECOND YEAR)

(PART - III)

(PAPER - VII)

210/240. COMPUTER ARCHITECTURE AND MICROPROCESSORS

(Revised Regulations)

(Common with B.Sc. - IT - Revised Regulations)

(Including Lateral Entry)

December]

Mon Mag

[Time : 3 Hours

Maximum : 100 Marks

SECTION - A $(8 \times 5 = 40)$

Answer any EIGHT questions. All questions carry equal marks.

1. What are XOR and AND gates. Give truth table for 2 input XOR and AND gates.

Turn over

2

- 2. What is a counter? List the applications of counters.
- 3. With a neat block diagram, explain the bus system of 8085.
- 4. What is memory map? Explain.
- 5. What is Data masking? Discuss.
- 6. Write an ALP moving a block of data from one location to another location. Draw the flow chart.
- 7. Explain how delay time is calcuated in a delay routine.
- 8. What are subroutines? Explain with examples.
- 9. Explain the BCD to Binary Conversion with suitable example.
- 10. Give a short note about software development tools.

SECTION - B $(3 \times 20 = 60)$

Answer any THREE questions. All questions carry equal marks.

- 11. (a) What is the function of registers ? Explain.
 - (b) State and prove Demorgon theorem.

- 3
- 12. With a detailed block diagram, explain the internal architecture of 8085 highlighting each block.
- 13. What is an instruction? How are the instructions classified for 8085 microprocessor? Explain with suitable examples.
- 14. Explain how a stack can be constructed in an ALP. Using a suitable program, explain how data is stored in a stack and retrieved.
- 15. Write an ALP to convert a binary to ASCII code equivalent and also draw flow diagram.

M. Com