

III B.Tech II Semester Supplementary Examinations, April/May 2005
COMPUTER ORGANISATION
(Electronics & Control Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Convert the following decimal numbers into binary, octal and Hexo decimal?
 - i. 27.45
 - ii. 32.125
- (b) What is normalization in float point number? How to perform? Give and explain a simple floating representation?
2. (a) Compare Hardware, Micro programmed and Nano programmed control units?
- (b) Specify with a neat sketch the instruction cycle?
3. (a) Describe relative, indirect and indexed addressing modes with your own examples?
- (b) Describe Zero, one, two address instruction formats?
4. Write an assembly language program to sort N elements starting from the addr Addr.
5. (a) Describe 8085 pin diagram and explain the functions of each pin?
- (b) Give the timing diagram for execution of 'OUT' and 'Add M' instructions?
6. (a) What is virtual memory? And explain it's need?
- (b) Describe and compare SPAM and DRAM?
7. (a) Describe the DMA with a neat sketch?
- (b) Explain how to implement programmed I/o?
8. Write short notes on any THREE of the following:
 - (a) Von Neumann machine
 - (b) RISC processor
 - (c) Segmentation
 - (d) Flag Registers.
