

7214/A25

OCTOBER 2008

COMPUTER ORGANIZATION

Time : Three hours Maximum : 100 marks

PART A — (6 × 5 = 30 marks)

Answer any SIX questions.

1. Write an assembly language program to add two numbers.
2. Discuss the rules of assembly language.
3. Explain all shift operations with example.
4. List out the program control instructions with their usages.
5. Explain Pipeline processing in detail.
6. Explain Auxillary memory.
7. Explain fetch and Indirect cycle.

PART C — (2 × 15 = 30 marks)

Answer any TWO questions.

17. Explain Multiprocessor System organization.
18. Explain in detail
 - (a) DMA Data Transfer.
 - (b) Handshaking.
19. Explain associative and set-associative mapping in cache memory.

8. List out the page replacement algorithms and explain them.

9. Write note on Asynchronous data transfer.
10. Explain storage hierarchy in a large computer system.

PART B — (4 × 10 = 40 marks)

Answer any FOUR questions.

11. Explain data transfer and data manipulation Instructions.
12. Explain vertical micro instructions. List out the advantages and areas of application.
13. List out usages of addressing modes and explain its types.
14. What is asynchronous data transfer? Explain.
15. Differentiate between parallel and serial interrupts and explain each with an Example.
16. Explain the techniques used to protect memory.