

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086
(For candidates admitted during the academic year 2008 – 09)

SUBJECT CODE: CS/PC/CA14

M.Sc. DEGREE EXAMINATION, NOVEMBER 2008
INFORMATION TECHNOLOGY
FIRST SEMESTER

COURSE : CORE
PAPER : COMPUTER ARCHITECTURE
TIME : 3 HOURS

MAX. MARKS: 100

SECTION – A

(10X2=20)

ANSWER ALL THE QUESTIONS:

1. What is a compiler?
2. What is an assembly language?
3. Write about n-bit ripple carry adder.
4. What are the different schemes of communication link?
5. Define stack.
6. What is cache memory?
7. Write about synchronous counter.
8. What is a super computer?
9. Define DMA.
10. What is an interrupt?

SECTION – B

(5X6=30)

ANSWER ANY FIVE QUESTIONS:

11. Explain the functional units of a computer.
12. Give the different ways of representing number with examples.
13. Write about synchronous transmission.
14. What are the two broad classification of timing of data transfer over a bus?
15. What are the types of CPU organizations?
16. Write about auxiliary memory.

SECTION – C

(5X10=50)

ANSWER ANY FIVE QUESTIONS:

17. List the different addressing modes.
18. Explain with examples the Booth algorithm.
19. Write about the two ways of performing integer division.
20. List the various input devices.
21. Explain any five ways of implementing the interconnection networks in multiprocessor systems.
22. Write in detail about DMA.
23. List the mapping procedures of cache memory.
