

15092

M.Sc. DEGREE EXAMINATION, NOVEMBER 2016.

FIRST SEMESTER

Computer Science

Paper II — COMPUTER ORGANIZATION

Time : Three hours

Maximum : 75 marks

(No additional sheet will be supplied)

PART A — (5 × 3 = 15 marks)

Answer any FIVE questions.

Each question carries 3 marks.

Each answer should not exceed 1 page.

1. What is cache memory?
2. What is distributed computing?
3. What is an interrupt?
4. What are the features of virtual memory?
5. What are the branching conditions?
6. What are the basic input and output operations?
7. What is software and hardware?
8. What is Pipelining?

PART B — (4 × 15 = 60 marks)

Answer ALL questions.

Each question carries 15 marks.

Each answer should not exceed 6 pages.

9. Discuss the basic operational concepts of a computer with neat diagram.

Or

10. Distinguish between the working of hardwired control and micro programmed control.
11. Explain the working of DMA and standard I/O interfaces.

Or

12. Explain virtual memory organization with neat block diagram.

13. Explain about arithmetic and branching conditions.

Or

14. Describe briefly about fixed point and floating point representation with example.

15. Explain briefly about online storage system performance consideration.

Or

16. Discuss briefly about Instruction set design.

