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Exam. Code : 206701 Subject Code : 4677

M.Sc. Computer Science 1st Semester ADVANCED COMPUTER ARCHITECTURE Paper-MCS-102

Time Allowed—3 Hours] [Maximum Marks—100 Note :— Attempt five questions, selecting at least one question from each Section. All questions carry equal marks.

SECTION-A

- 1. (a) Define the term Parallel Computing. Differentiate between Vector Processor and Systolic processor.
 - (b) How MIMD parallel computer is different from SIMD parallel computer ? Discuss.
- 2. Explain Flynn's architectural classification scheme of computer organization in detail.

SECTION-B

- 3. Discuss different available parallel computing models in brief. Explain the working of at least one in detail.
- 4. Discuss different categories of Parallel Processing Mechanism in Uniprocessor Computers.

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SECTION-C

- 5. Differentiate between :
 - (a) Parallelism versus Pipelining.
 - (b) Serial Processing versus Parallel Processing.
- "An Array Processor uses multiple synchronized arithmetic logic units to achieve spatial parallelism". Discuss.

SECTION-D

- 7. Discuss Pipeline classification schemes according to pipeline configurations and control strategies.
- Discuss the role of Reservation Table in Linear Pipelining.

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2