Exam. Code : 208601 Subject Code : 4696

M.Sc. (IT) Semester—I ADVANCED COMPUTER ORGANIZATION AND ARCHITECTURE

Paper-MIT-103

Time Allowed—3 Hours] [Maximum Marks—100

Note :—Attempt any FIVE questions. All questions carry equal marks.

- 1. What is a MIMD array processor ? Explain computer Organization and Inter PE-Communications. 20
- What are the various combinational circuits used in the parallel computing ?
 20
- 3. Explain the following :---
 - (i) Kung's Taxonomy
 - (ii) General pipelines and Reservation Tables
 - (iii) Combinational Circuits
 - (iv) SIMD. 5×4=20
- 4. What is PRAM Model ? Explain the characteristics of PRAM Model with example. 20
- 5. Explain the working procedure of SPMD Model. 20

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- 6. Explain the architectural classification schemes. Explain pipeline computer and multiprocessor system. 20
- 7. Explain the Basic Uniprocessor Architecture with its organization and working environment. Also write down its advantages. What are interconnection RAMs ?

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- (A) Differentiate between parallel and pipelined processing.
 10
 - (B) Differentiate between Masking and Data Routing Mechanisms.
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