

**B.Tech. COMPUTER SCIENCE AND
ENGINEERING (BTCS-VI)**

Term-End Examination

June, 2013

**BICS-025 : ADVANCED COMPUTER
ARCHITECTURE**

Time : 3 hours

Maximum Marks : 70

Note : *Answer any seven questions. All questions carry equal marks.*

1. Explain parallel processing and pipelining. 10
2. What are the applications of parallel processors ? 10
3. Explain arithmetic pipelines. 10
4. Explain the Design of various types of pipelines. 10
5. Briefly explain data buffering and busing structures in pipelines. 10
6. Explain SISD and MISD in datastreams. 10
7. Explain static and dynamic networks in interconnected networks. 10

8. What is parallel sorting ? Explain the Algorithms for parallel sorting. 10
9. Explain various types of array and associative processors. 10
10. Write a short notes on :
- (a) Cross - bar switch 5
 - (b) Multi - port memories 5
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