

AE-822

M.Sc. (Previous)
Term End Examination, 2016-17

COMPUTER SCIENCE

Advanced Computer Architecture

Time : Three Hours] [Maximum Marks : 100
[Minimum Pass Marks : 36

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

1. Explain the following :
 - (a) Instruction set
 - (b) Data parallelism
 - (c) Switch-based interconnection network
 2. Define Addressing mode. What is the need of addressing mode ? Explain types of addressing mode with suitable example.
 3. Define Pipelining. What are the types of pipeline ? How is pipelining implemented ?
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4. Explain the architecture of VLIW processor. What are the differences among pipeline, superscalar and VLIW processor ?
5. Explain the following :
 - (a) Thread-level parallelism
 - (b) Bus-based symmetric multiprocessor
 - (c) Symmetric shared memory
6. What is Message passing ? Explain routing in message passing networks.
7. What is Grid computing ? How grid computing is different from cluster computing ?
8. What is Distributed computing ? Explain in detail.