

B. Tech. 7th Semester (CSE) F. Scheme Examination,

December-2017

ADVANCE COMPUTER ARCHITECTURE

Paper-CSE-401-F

Time allowed : 3 hours] [Maximum marks : 100

Note : Attempt five questions selecting one question from each unit. Question No. 1 is compulsory.

1. Explain the following : 20
- (i) Instructions
 - (ii) Cache References per Instruction
 - (iii) Buffer Size
 - (iv) Vector Processor

Unit-I

2. (i) Explain in detail about Instruction Set Architecture. 10
- (ii) Describe the following :
- (i) Branch Instructions
 - (ii) Complex Instructions. 10
3. (i) Give a brief description about Basic Instruction Timing. 10
- (ii) What do you mean by Time, Area and Instruction Set? Explain. 10

Unit-II

4. Explain the following :
- (i) Write Assembly Cache
 - (ii) Strategies for line replacement at MISS Time. 20
5. Describe the following :
- (i) Virtual to Real Translation
 - (ii) Two Level Caches. 20

Unit-III

6. Explain in detail about Queueing Models. 20
7. Describe the following :
- (i) Waiting Time
 - (ii) DRAM
 - (iii) Rau's Model. 20

Unit-IV

8. (i) Define Concurrent Processor. Explain its classification.
- (ii) Describe in brief about vector memory. 20
9. Give a complete description about Shared Memory Multiprocessors. 20