

Roll No. ....

**24487**

**B. Tech 7th Semester (CSE)  
Examination – May, 2018**

**ADVANCED COMPUTER ARCHITECTURE**

**Paper : CSE-401-F**

Time : Three Hours ]

[ Maximum Marks : 100

*Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.*

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

1. Explain the following : 20
- (i) Microprogramming
  - (ii) Cache Environment
  - (iii) RAM
  - (iv) Vector Memory

## UNIT - I

2. Explain the following : 20
- (i) Load-store Architecture
  - (ii) Register Memory Architecture
  - (iii) Register plus Memory Architecture
  - (iv) Memory Space
3. (i) What do you mean by virtual to Real Mapping ?  
Explain. 10
- (ii) Give a complete description about processor  
Evaluation Matrix. 10

## UNIT - II

4. Describe the following : 20
- (i) Harvard's Architecture
  - (ii) On chip Caches
  - (iii) Split Cache
5. Explain the following : 20
- (i) Overlapping the T-cycle in V-R Translation
  - (ii) Cache Environment

### UNIT – III

6. Describe the models of Simple Processor Memory Interaction. 20
7. Explain the following : 20
- (i) Processor with cache
  - (ii) The Physical Memory

### UNIT – IV

8. (i) What do you mean by multiple Issue Processor ? Explain. 10
- (ii) Define vector processor. Explain the basic vector processor Architecture. 10
9. What do you mean by memory coherence in shared memory Multiprocessor. Explain. 20
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