

Roll No. ....

Total Pages : 2

**BT-3/D-21**

**43206**

**COMPUTER ORGANIZATION AND ARCHITECTURE**

**Paper-ES-CS-CYS-211A**

Time : Three Hours]

[Maximum Marks : 75

**Note :** Attempt *five* questions in all, selecting at least *one* question from each unit. Each question carry equal marks.

**UNIT-I**

1. (a) Explain computer organization. 10
- (b) What do you understand by fixed point representation of numbers ? Explain. 5
2. (a) Write a short note on evolution and computer generations. 5
- (b) Describe multiplication using Booth's algorithm. 10

**UNIT-II**

3. (a) Explain instruction cycle with the help of suitable diagram. 8
- (b) Describe the computer registers and common bus system. 7
4. (a) Explain micro programmed control organization. 10
- (b) Write a short note on interrupt cycle. 5

### UNIT-III

5. (a) Explain the different addressing modes with the help of suitable examples. 7
- (b) Explain the features of CISC and RISC. 8
6. (a) Describe vector processing. 7
- (b) Write a short note on parallel processing. 8

### UNIT-IV

7. (a) Explain Strobe control and handshaking. 8
- (b) Describe I/O bus and interface modules. 7
8. Write short note on the following terms :
- (a) Direct memory access.
- (b) Input Output Processor.
- (c) Daisy chaining. 15

