

**B. Tech. DEGREE EXAMINATION, MAY - 2015**

**(Examination at the End of Second Year)**

**COMPUTER SCIENCE**

**Paper - III : Computer Organization**

**Time : 3 Hours**

**Maximum Marks : 75**

---

**Answer question No.1 compulsory**

**(5 × 3 = 15)**

**Answer ONE question from each unit**

**(4 × 15 = 60)**

1) Write a short note on :

- a) BUS & Memory Transfer.
- b) Control Memory.
- c) Main Memory.
- d) Addition and Subtraction in signed Magnitude.
- e) DMA (Direct Memory Access)

**UNIT - I**

2) Explain about Instruction codes and computer registers.

OR

3) List and Explain various Arithmetic Microoperations.

**UNIT - II**

4) Explain different types of addressing modes with an example.

OR

5) Design of control unit. Explain in detail.

**UNIT - III**

6) Explain about Booth's Algorithm, with Flowchart.

OR

7) a) What is virtual Memory? Explain its features.

b) Explain the concept of ROM.

**UNIT - IV**

8) Differentiate : Isolated I/O and Memory Mapped I/O.

OR

9) Explain in detail about IOP.

