

Total No. of printed pages = 2

Co-305/CAO/3rd Sem/2014/N

**COMPUTER ARCHITECTURE
AND ORGANIZATION**

Full Marks – 70

Pass Marks – 28

Time – Three hours

The figures in the margin indicate full marks
for the questions.

Answer any *five* questions.

1. (a) Give the 2's complement representation of $(11100110)_2$.
- (b) What is the full form of ASCII and EBCDIC ?
- (c) What do you mean by radix ?
- (d) Convert $(111000111110)_2 = (?)_8$
- (e) Convert $(756.25)_{10} = (?)_2$
- (f) What do you mean by fixed and floating point representation ?
- (g) What is DMA controller ? 2×7=14

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2. What do you mean by addressing modes ? Explain about different types of addressing modes. 2+12=14
3. Write short notes on any *two* : 2×7=14
- (a) Magnetic tape
 - (b) Auxiliary storage device
 - (c) Addressing of I/O device.
4. (a) Give the design of micro-program control unit. 10
- (b) What do you mean by synchronization ? 2
 - (c) What is polling ? 2
5. (a) What are the different components of ALU ? Draw the diagram. 10
- (b) What do you mean by VDU ? 4
6. (a) What are the different types of printers ? 7
- (b) Explain about memory of computer. 7