



UTTARAKHAND OPEN UNIVERSITY, HALDWANI (NAINITAL)  
उत्तराखण्ड मुक्त विश्वविद्यालय, हल्द्वानी (नैनीताल)

BCA 2<sup>ND</sup> YEAR 4<sup>TH</sup> SEMESTER ASSIGNMENT

*Last Date of Submission: 15 July 2015*

**Course Title:** Computer Organization

**Course Code:** BCA-11

**Year:** 2014-15

**Maximum Marks:** 40 Marks

Section 'A' contains 08 short answer type questions of 5 marks each. Learners are required to answers 4 questions only. Answers of short answer-type questions must be restricted to 250 words approximately.

1. Distinguish between combinational circuit and sequential circuit.
2. What is the significance of pipelining? Discuss.
3. What are the differences between asynchronous and synchronous counter?
4. What do you mean by addressing mode? Discuss the different addressing mode of 8085 with an example.
5. What is the difference between Programmed I/O and Interrupt Driven I/O? What are their advantages and disadvantages?
6. Differentiate between SRAM and DRAM.
7. What are the functions of cache memory?
8. Differentiate between CD-ROM and DVD.

Section 'B' contains 04 long answer-type questions of 10 marks each. Learners are required to answers 02 questions only.

1. With a neat diagram, explain in detail the functional units of a computer.
2. Explain in detail DMA data transfer modes.
3. Describe the functions of the I/O interface units in a computer.
4. What are the main components of CPU? Briefly describe each of these components.