



UTTARAKHAND OPEN UNIVERSITY, HALDWANI (NAINITAL)

BCA-II 3rd YEAR 5th SEMESTER ASSIGNMENT*Last Date of Submission: 15 Jan., 2014***Course Title: Advanced Computer Architecture****Course Code: BCA-16****Year: 2013-14 Summer****Maximum Marks: 40**

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

1. Write the function of ALU with suitable diagram.
2. What is meant by direct memory access?
3. What is Cache memory? Explain.
4. What are the main differences between CISC and RISC class of computer system architecture?
5. What are requirements for a system design? Explain.
6. How are data represented in computer storage?
7. List the characteristics of pipeline processors.
8. What are the basic gates?

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

1. Illustrate the elements of a computer with neat diagrams. Explain the functionality of each of them.
2. Give a brief note on the generation of computers.
3. Describe the characteristics of cache memory.
4. Describe in detail about RISC architecture.