

ALCCS – OLD SCHEME

Time: 3 Hours

AUGUST 2012

Max. Marks: 100

PLEASE WRITE YOUR ROLL NO. AT THE SPACE PROVIDED ON EACH PAGE IMMEDIATELY AFTER RECEIVING THE QUESTION PAPER.

NOTE:

- Question 1 is compulsory and carries 28 marks. Answer any FOUR questions from the rest. Marks are indicated against each question.
- Parts of a question should be answered at the same place.

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- Q.1** a. Write a brief note on absolute loader and its functionality.
b. Discuss the merits of multipass assembler.
c. State differences between a linker and a loader.
d. Write short note on Code Optimization Techniques.
e. Explain incremental compilation.
f. State major functions of an editor.
g. How is a linkage editor used? Explain. (7 × 4)
- Q.2** a. What is system software? Explain the components of system software. (9)
b. Define application software. Discuss differences between system software and application software. (9)
- Q.3** a. What is bootstrap loader? Explain bootstrap loader process. (9)
b. Write short note on Macro Processing within Language Translators. (9)
- Q.4** a. Describe the structure of a single pass assembler. (9)
b. What is conditional assembly? Explain with example. (9)
- Q.5** a. What is compiler? Explain different phases of compilation. (9)
b. Use suitable example to explain the concept of Parsing and left recursive in compiler. (9)

Code: CS22

Subject: SYSTEM SOFTWARE

- Q.6** a. Explain interactive debugging system. State its functions and capabilities. (9)
- b. Define interpreter. Discuss differences between compiler and interpreter. (9)
- Q.7** a. Explain the functions of program linking in machine dependent loader. (9)
- b. What are editors? Discuss various categories of editors along with their functions. (9)