Exam. Code : 107204

Subject Code : 1972

BCA Semester-IV

SYSTEM SOFTWARE

Paper—IV

Time Allowed—3 Hours]   [Maximum Marks—75

Note :— (1) The candidates are required to attempt any **FIVE** questions. All questions carry equal marks.

(2) The student can use only non-programmable and non-storage type calculator.

1. What do you mean by System Software ? Discuss various components of a system software with the help of a suitable diagram.   15

2. What is a assembler ? Discuss various phases of one pass assembler with the help of a block diagram.   15

3. What do you mean by a compiler ? Discuss various phases of compiler design with the help of suitable examples.
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4. (a) What is a Macro and its expansion ? Discuss with suitable examples.

   (b) Distinguish between conditional macro expansion and recursive macro expansion with the help of suitable code fragments. 15

5. What do you mean by a loading scheme ? Explain various loading schemes in detail with the help of suitable examples. 15

6. What do you mean by editors ? Discuss their usefulness with the help of suitable examples. 15

7. Differentiate between syntax analysis and semantic interpretation with the help of suitable examples. 15

8. Explain the following in brief :

   (a) Translators

   (b) Uniform Symbols. 15

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