

M-53/2110

10567/N

Total No. of sheet used : 01 Total No. of Questions: 09
Subject : System Software
Class : BCA 5th Semester
Paper : BCA-313
Title of Paper : System Software
Time Allowed : 3 Hours
Maximum Marks: 75 MinPass Marks: 35%

Note: Candidates are required to attempt five questions in all selecting at least two questions each from sections A and B. Section C is compulsory.

SECTION A

- Q1. Define system software? Differentiate between system software and application software. Give salient features of system software. 15
- Q2. What are language processing activities? What are various language processors? Discuss in detail. 15
- Q3. Elaborate the design of a single pass assembler. What are the merits and demerits of single pass assembler in comparison to two pass assembler? 15
- Q4. What do you mean by a loader? What functions are performed by a loader? Discuss reloadable loaders in detail. 15

SECTION B

- Q5. What do you mean by parsing? What are various types of parsing? Discuss in detail giving their relative merits and demerits. 15
- Q6. What do you mean by intermediate code forms? Discuss intermediate code forms for various arithmetic expressions. 15
- Q7. Is code optimization an important phase of compilation? What are different ways of optimizing the code? Explain any two schemes with the help of suitable examples. 15
- Q8. Discuss the following in detail
- a) Debug monitors 7.5
 - b) User interface 7.5

SECTION C

- Q9. a) What are various types of system software? 03
- b) What are the advantages and disadvantages of absolute loaders? 03
- c) What are the features of assembly language? 03
- d) What do you mean by programming environment? 03
- e) Compare compiler with interpreter. 03