D-3

B.Tech. EXAMINATION, May 2017

(Fourth Semester)

(B. Scheme) (Main & Re-appear)

(CSE)

CSE-206-B

SYSTEM PROGRAMMING

Time : 3 *Hours*]   [*Maximum Marks :* 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

(3-37/*1*) **M-D-3**   **P.T.O.**

Unit I

1. Explain the use of the following tools/ components :

   (a)   Loaders

   (b)   Debug Monitors

   (c)   Macros. **15**

2. Differentiate between : **15**

   (a)   Compiler and Interprerator

   (b)   Open and closed subroutine

   (c)   Multiprogramming and Multiprocessing.

Unit II

3. What are the different tables used in the design of an assembler ? How these tables are maintained ? **15**

4. What is the difference between :

   (a)   A phase and a pass

   (b)   Syntax analysis and semantic interpretation

   (c)   A token and a uniform symbol ?

Give examples in your explanation. **15**

Unit III

5. Explain different loading schemes used by a system. **15**

6. (a)   Explain the mechanism of handling macro calls within macros. **10**

   (b)   Define macro instruction arguments. **5**

Unit IV

7. Write short notes on the following : **15**

   (a)   DOS Editor

   (b)   VI Editor

   (c)   Line Editor.

8. Explain different debugging techniques. **15**