Roll No. | | | | | | | | | | | | Total No. of Pages : 02

Total No. of Questions : 09

B.Tech.(CSE)/(IT) (2011 onwards) (Sem.–4)
SYSTEM PROGRAMMING
Subject Code : BTCS-405
Paper ID : [A1187]

Time : 3 Hrs. Max. Marks : 60

INSTRUCTION TO CANDIDATES :

1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.**

SECTION-A

1. Write briefly :

(a) What do you mean by text editor?

(b) What is two pass assembler?

(c) When do we use debugger?

(d) What is recursive macro?

(e) What is a parse tree?

(f) What is input and output for a YACC?

(g) Why we need loader?

(h) What is justify in MS-word?

(i) What is a full screen editor?

(j) What is three address coding?

SECTION-B

2. Compare dynamic linking with static linking.

3. What is the purpose of error handler in compiler design? How a program is affected if error handler is not used by the compiler?

4. What are the different loader schemes? Explain each with the help of diagram.

5. Differentiate application programs with system programs.

6. Explain the working of two pass assemble with an example. Draw the flow chart of two pass assembler.

SECTION-C

7. Write a short program to demonstrate the use of LEX. Write complete procedure to write, compile and execute your LEX program. (Assume all required software's are available to you).

8. What are assembler directives? Explain the function of EQU and START.

9. What do you mean by address sensitive area in an assemble language program? Can absolute loader handle these areas? If yes, then how.