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

Total No. of Questions : 18

B.Tech. (CSE) (2012 to 2017 E-III) (Sem.–7)
B.Tech. (IT)
COMPILER DESIGN
Subject Code : BTCS-913
M.Code : 71905

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 have to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.**

SECTION-A

Answer briefly :

1) Write a note on role of a parser.

2) What is Compiler?

3) What are the applications of compiler technology?

4) What do you mean by code generation?

5) Difference between Compilation and Interpretation.

6) What do you mean by lexical analyzer?

7) Write a note on Handle pruning.

8) Write brief note on symbol tables.

9) What are the specifications and recognition of tokens?

10) What is back patching?

SECTION-B

11) What is the role of lexical analyser in compilation process? What are patterns, lexemes and tokens?

12) What do you mean by compiler designing? Explain the structure of compiler.

13) List the various types of intermediate code representation. Explain any three types in details.

14) What is the cross compiler? What is difference between compiler and interpreter?

15) Write short Note on :

   a) YACC

   b) Parse tree

SECTION-C

16) Explain the working and algorithm of LR Parser.

17) What is symbol table? Explain in detail its contents and data structure.

18) What is Syntax Directed Definitions? Explain how infix expression can be converted to postfix expression using SDD's?

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.