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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.

