

I. T. Sem - VII

B.Tech. SEM -VII Info. Tech. 2014 Course (CBCS) : SUMMER - 2019
SUBJECT: COMPILER CONSTRUCTION AND DESIGN

Day: Thursday
Date: 09/05/2019

S-2019-2827

Time: 02.30 PM TO 05.30 PM
Max Marks: 60

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Assume suitable data if necessary.
- 4) Use of nonprogrammable of **CALCULATOR** is allowed.

Q.1 Explain the different phases of compiler in detail with example. (10)

OR

Q.1 Write a short note on following terms (ANY TWO) (10)
i) Preprocessor
ii) Assembler
iii) Interpreters

Q.2 Explain the term Grammar in detail. What is Context Free Grammar? Define with proper structure. (10)

OR

Q.2 Differentiate between Top Down parsing and Bottom Up parsing with example. (10)

Q.3 Analyze and define Syntax Directed Translation with example. (10)

OR

Q.3 How Bottom Up evaluation is effective in Syntax Translation Process. (10)

Q.4 How storage organization and stack allocation is essential for effective runtime environment. (10)

OR

Q.4 Write down functionality and Importance of heap management with suitable data. (10)

Q.5 What are the code generation techniques available? Discuss different issues in code generation? How to tackle with these issues? (10)

OR

Q.5 How run time storage management is done during code generation? (10)

Q.6 Discuss different code optimization techniques with some principal sources. (10)

OR

Q.6 Explain the term Global Data Flow analysis with suitable diagram (10)

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