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BACHELOR OF TECHNOLOGY (C.B.C.S.) (2014 COURSE)
B.Tech.Sem - VII IT : WINTER- 2022
SUBJECT : COMPILER CONSTRUCTION & DESIGN

Day : Wednesday

Time : 02:30 PM-05:30 PM

Date : 07-12-2022

W-13427-2022

Max. Marks : 60

N. B. :

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Assume suitable data if necessary.
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Q. 1 Describe the tasks of lexical analyzer in detail. **(10)**

OR

Discuss the role of finite automata in compiler construction. **(10)**

Q. 2 Explain Bottom-up parser with example. **(10)**

OR

With block schematic explain the working of LR parser. **(10)**

Q. 3 Explain concept of syntax directed definition. **(10)**

OR

Construct DAG for $a + a * (b - c) + (b - c) * d$. **(10)**

Q. 4 Which are the various errors encountered in compiler phases? **(10)**

OR

Discuss various source language issues that affect the organization of memory. **(10)**

Q. 5 What is 'Peephole optimization'? **(10)**

OR

Write a short note on 'Run time storage management'. **(10)**

Q. 6 Briefly explain source and target language issues. **(10)**

OR

Discuss case study of GNU C compiler. **(10)**

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