

**MASTER OF TECHNOLOGY (INFORMATION TECHNOLOGY) (CBCS - 2015
COURSE)**

M. Tech. (Information Technology) Sem-IV :SUMMER- 2022

SUBJECT : SELF-STUDY PAPER-II:COMPILER DESIGN

Day : Wednesday

Time : 10:00 AM-01:00 PM

Date : 15-06-2022

S-14591-2022

Max. Marks : 60

N.B.

- 1) All questions are **COMPULSORY**
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Answers to both sections should be written in **SEPARATE** answer books.
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SECTION – I

Q.1 Explain the phases of compiler with a neat diagram. **(10)**

OR

Discuss the role of lexical analyzer in detail with necessary examples.

Q.2 Discuss different storage allocation strategies. **(10)**

OR

Explain the Non – block structure storage allocation in detail.

Q.3 What is symbol table? Explain symbol table format in detail. **(10)**

OR

Discuss run time stack heap storage allocation.

SECTION – II

Q.4 Explain various dynamic storage allocation techniques. **(10)**

OR

Explain any three code optimization techniques with example.

Q.5 Explain various issues in design of code generator. **(10)**

OR

Explain Block and non - block structure storage allocation in detail.

Q.6 What is intermediate code? What is the importance? Discuss various **(10)**
representation of three address code.

OR

Explain machine dependent code optimization.

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