

**T.Y.B.SC. (Computer Science) SEM –VI (2014 COURSE) : SUMMER
2019**

SUBJECT: COMPILER CONSTRUCTION

Day : - Saturday
Date : 27/04/2019

S-2019-1160

Time : 03.00 PM TO 05.00 PM
Max. Marks : 40

N. B. :

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
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Q.1 Answer any **TWO** of the following: (10)

- a) Elaborate different types of assembly statements.
- b) What is scanner? State the functions of scanner.
- c) Write a SMACO to find square of a number.

Q.2 Answer any **TWO** of the following: (10)

- a) Elaborate macro preprocessor in detail.
- b) What is unambiguous grammar? Explain with example.
- c) Describe Leftmost Recursion and Rightmost Recursion in brief.

Q.3 Answer any **TWO** of the following: (10)

- a) Describe the design of two pass assembler.
- b) Differentiate between system software and application software.
- c) What is meant by non-relocatable program?

Q.4 Answer any **FIVE** of the following: (10)

- a) What is buffering?
- b) Construct FA over $\Sigma = \{a, b\}$ for accepting all words with ending with 'a'.
- c) What are the type of grammar in Chomsky hierarchy?
- d) What is MDT?
- e) What is regular expression?
- f) Define nullable symbol.
- g) Construct FA for ab^*a .

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