

**T.Y.B.SC. (Computer Science) SEM –VI (2014 COURSE) : WINTER -  
2018**

**SUBJECT: COMPILER CONSTRUCTION**

Day : Saturday  
Date : 20/10/2018

**W-2018-0976**

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

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**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) Discuss various linking schemes.
- b) Explain top-down parsing with examples.
- c) Write a SMACO to find multiplication of two numbers.

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

- a) Elaborate various storage allocation methods.
- b) What is an Overlay?
- c) Explain the working of lexical analyzer in detail.

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

- a) Explain various assembly directives.
- b) What is reduction? Explain with example.
- c) Define Parse Tree. Explain with example.

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

- a) What is Type 2 grammar?
- b) State features of SMACO.
- c) Construct CFG which accepts set of palindrome over {a,b}.
- d) Define - Interpreter.
- e) What is loader?
- f) Define useless symbols.
- g) Give the data structures used by a macro-preprocessor.

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