# B. Tech. 7th Semester (CSE)

# Examination - December, 2016

**COMPILER DESIGN** 

Paper: CSE - 405 - F

Time: Three Hours]

[ Maximum Marks: 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note: The candidate have to attempt first compulsory question and one question from each of the four sections.

1. Describe the following:

20

- (i) Input buffering
- (ii) Parsing
  - (iii) LALR
- (iv) Linked lists

24488-4350-(P-3)(Q-9)(16)

. ⊢ O

#### SECTION - I

2. (i) What is compiler. Explain the different phases of

	compiler.	10	
<b>(I</b> )	(ii) Explain in detail about compiler construction tools.	tion 10	
რ ⊱	3. Write short note on following:	20	
(i)	) Finite auto mata		
(i:	(ii) Lexical analysis		
(i.	(iii) Regular expression		
i)	(iv) Input buffering		
	SECTION – II		
<b>4.</b> G	4. Give a complete description about syntax analysis.	50	
5. D	Describe the following:	50	
(a	(a) Predictive parsing		
(c	(b) Operator precedence parsing		
24488-	24488-4350-(P-3)(Q-9)(16) ( 2 )		

## SECTION - III

: 81
win
follo
the
lain
Exp

ø.

20

(i) LR parser

· (ii) Canonical LR parser

**7.** Describe the following:

20

(i) Construction of syntax trees

(ii) Three address code

(iii) Quadruples and triples

### SECTION - 1V

**8.** Give a complete description about code optimization and code generation.

**9.** What is error? Explain in detail about lexical phase error, syntactic phase error and semantic error.

24488-4350-(P-3)(Q-9)(16)

(3)