Printed page: 1	Subject Code: ACSBS0502
	Roll No:
OIDA INSTITUTE OF E	NGINEERING AND TECHNOLOGY
	An Autonomous Institute)
Affiliated to Dr. A.P. J. Ab	dul Kalam Technical University, Uttar Pradesh,
Course- B.Tech	Branch- CSBS
Semester- Vth	Sessional Examination: 1st

Subject Name: Compiler Design

Year- (2022 - 2023) Max. Marks:30 Time: 1.15 Hours

General Instructions:

> This Question paper consists of 02 pages & 05 questions. It comprises three Sections A, B, &C. You are expected to answer them as directed.

Section A -Q. No- 1 is of one 1 mark each & Q. No- 2 carries 2 mark each.

Section B. Q. No- 3 carries 5 marks each.

Section C - Q.No.4 & 5 carries 6 marks each. Attempt any one part a or b

		SECTION – A [08Marks]						
1.	All	questions are compulsory-	(4×1=4)					
	a.	Which of the following is used for grouping of characters into tokens? i. Parser ii. Code generator iii. Lexical analyser iv. Code generator	(1)	CO1				
	b.	Ais a software utility that translates code written in higher language into a low level language. i. Text editor ii. Compiler iii. Converter iv. Code optimizer	(1)	CO1				
	c.	Which of the following methods is used by the bottom-up parser to generate a parsetree? i. Leftmost derivation ii. Rightmost derivation iii. Leftmost derivation in reverse iv. Rightmost derivation in reverse	(1)	CO2				
	d.	Which two functions are required to construct a parsing table in predictive parsing technique? i. CLOSURE() and GOTO () ii. FIRST() and FOLLOW() iii. ACTION() and GOTO() iv. None of these	(1)	CO2				
2.	All	questions are compulsory-	(2×2=4)					
2	a.	Define Translator?	(2)	CO1				

b. Define Backtrack	cing?	(2)	CO2
	SECTION - B	[10M	[arks]

3.	. Answer any two of the following-		(2×	5=10)
	a.	Explain token, Patterns, Lexemes and Ambiguity?	(5)	CO1
	b.	Explain Operator Precedence Parser and Precedence function?	(5)	CO2
24	c.	Consider the following	(5)	CO2
		grammar- $E \rightarrow E - E/E$		
		\rightarrow E x E/id Parse the input string id – id x id using a shift-reduce parser.		
19	1 3.	SECTION - C	[12N	[arks]
4	An	swer any one of the following-	(1×	6=6)
	-6		4	
	a.	Explain phases of compiler?	(6)	CO1
1	b.	Explain Front end and Back end of compiler?	(6)	CO1
5.	Answer any one of the following-		(1×6=6)	
	a.	Give difference between Top-Down and Bottom-Up Parser?	(6)	CO2
	b.	Explain LR(0), SLR, LALR and CLR parser?	(6)	CO2

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