SET-1

St Peter's	St. Peter's Engineering College (Autonomous)								
	Dullapally (P), Medchal, Hyderabad – 500100.							ic Year I-25	
	II	- Mid Term Exan	nination- June 2	024		20	JZ-	-23	
Subject Code	:	AS22-66PC02	Subject	:	AUTOMATA THEORY	& COMPILER	DE	SIGN	
Class/Section	:	B. Tech. (A)	Year	:	II Semester : II				
Duration	:	120 Min	Max. Marks	:	30 Date: :				

	BLOOMS LEVEL								
Remember	L1	Understand	L2	Apply	L3				
Analyze	L4	Evaluate	L5	Create	L6				

PART - A (10x1M = 10M)

Note: Answer all Questions. Each Question carries equal marks.

Q. No	Question (s)	Marks	BL	CO				
	UNIT – IV							
1	a) Define Compiler.	1M	L1	C224.4				
	b) Define Source Program.	1M	L1	C224.4				
	c) Define Lexical Analyzer.	1M	L1	C224.4				
	d) Define Syntax Tree.	1M	L1	C224.4				
	UNIT – V			•				
	e) Define Semantic Analysis.	1M	L1	C224.6				
	f) Define Syntax Directed Definition.	1M	L1	C224.6				
	g) Define Dependency Graph.	1M	L1	C224.6				
	h) Define Intermediate Code.	1M	L1	C224.6				
	UNIT – III							
	i) Define Blank Symbol in TM.	1M	L1	C224.3				
	j) Define Decidability.	1M	L1	C224.3				

PART – B (20M)

Q. No	Question (s)	Marks	BL	CO
	UNIT – IV			
2	a) Explain in detail about Complier Process.	4M	L4	C224.4
	b) Explain in detail about the role of Lexical Analyzer.	4M	L4	C224.4
	OR			
3	a) Explain in detail about Recursive Descent Parsing with Backtracking.	4M	L4	C224.5
	b) Explain in detail about First & Follow Symbols with examples.	4M	L4	C224.5
	UNIT – V			
4	a) Explain in detail about Types of Attributes.	4M	L4	C224.6
	b) Discuss about Symbol Table.	4M	L2	C224.6
	OR			
5	a) Explain in detail about Intermediate Code Generation.	4M	L4	C224.6
	b) Discuss about Activation Record.	4M	L2	C224.6
	UNIT – III			
6	Explain the Operation of Turing Machine performing any Operation.	4M	L4	C224.3
	OR			
7	Explain about Decidable Problem with examples.	4M	L4	C224.3

SET-2

St Peter's	St. Peter's Engineering College (Autonomous)									
	Dullapally (P), Medchal, Hyderabad – 500100.							Academic Year 2024-25		
	II	- Mid Term Exam	nination – June	202	4	20	UZZ	-25		
Subject Code	:	AS22-66PC02	Subject	:	AUTOMATA THEORY	& COMPILER	DE	SIGN		
Class/Section	Class/Section : B. Tech. (A) Year : II					Semester	:	II		
Duration	:	120 Min	Max. Marks	:	: 30 Date: :					

	BLOOMS LEVEL						
Remember	L1	Understand	L2	Apply	L3		
Analyze	L4	Evaluate	L5	Create	L6		

$PART-A\ (10x1M=10M)$ Note: Answer all Questions. Each Question carries equal marks.

Q. No	Question (s)	Marks	BL	CO				
	UNIT – IV							
1	a) Define First Symbol.	1M	L1	C224.4				
	b) Define Pre-Processor.	1M	L1	C224.4				
	c) Define Bottom Up Parsing.	1M	L1	C224.5				
	d) Define Syntax Analysis Phase.	1M	L1	C224.4				
	UNIT – V							
	e) Define Semantic Rules.	1M	L1	C224.6				
	f) Define Attribute.	1M	L1	C224.6				
	g) Define Actual Parameters.	1M	L1	C224.6				
	h) Define Storage Allocation.	1M	L1	C224.6				
	UNIT – III							
	i) Define Tape in Turing Machine.	1M	L1	C224.3				
	j) Define Undecidabilty.	1M	L1	C224.3				

PART – B (20M)

Q. No	Question (s)	Marks	BL	CO
	UNIT – IV			
2	a) Explain in detail about Phases of Compilation.	4M	L4	C224.4
	b) Explain in detail about the role of Syntax Analyzer.	4M	L4	C224.4
	OR			
3	a) Explain in detail about Predictive Parsing.	4M	L4	C224.5
3	b) Explain in detail about LR (0) Parsing.	4M	L4	C224.5
	$\mathbf{UNIT} - \mathbf{V}$			
4	a) Distinguish between S-attributes and L-attributes.	4M	L2	C224.6
	b) Explain in detail about Dependency Graph.	4M	L4	C224.6
	OR			
5	a) Explain in detail about 3 Address Code Representation.	4M	L4	C224.6
	b) Explain in detail about Run-Time Environment.	4M	L4	C224.6
	UNIT – III			
6	Explain the Operation of Turing Machine as a Substractor.	4M	L4	C224.3
	OR			
7	Discuss about Undecidable Problem with examples.	4M	L2	C224.3

SET-3

St Peter's	St. Peter's Engineering College (Autonomous)							
	Dullapally (P), Medchal, Hyderabad – 500100.							ic Year I-25
	Ш	- Mid Term Exam	nination - June	202	4	20	UZ2	1-25
Subject Code	:	AS22-66PC02	Subject	:	AUTOMATA THEORY	& COMPILER	DE	SIGN
Class/Section	Class/Section : B. Tech. (A) Year : II					Semester	:	II
Duration : 120 Min Max. Marks : 30					Date:	:		

BLOOMS LEVEL						
Remember	L1	Understand	L2	Apply	L3	
Analyze	L4	Evaluate	L5	Create	L6	

PART - A (10x1M = 10M)

Note: Answer all Questions. Each Question carries equal marks.

Q. No	Question (s)	Marks	BL	CO			
	UNIT – IV						
1	a) Define Compiler Process.	1M	L1	C224.4			
	b) Define an Assembler.	1M	L1	C224.4			
	c) Define Input Buffering.	1M	L1	C224.4			
	d) Define Follow Symbol.	1M	L1	C224.4			
	UNIT – V	•					
	e) Define Grammar.	1M	L1	C224.6			
	f) Define Directed Acyclic Graph.	1M	L1	C224.6			
	g) Define Formal Parameters.	1M	L1	C224.6			
	h) Define Heap Allocation.	1M	L1	C224.6			
	UNIT – III						
	i) Define Finite Control in Turing Machine.	1M	L2	C224.3			
	j) Define Recursive Language.	1M	L1	C224.3			

PART – B (20M)

Q. No	Question (s)	Marks	BL	CO
	UNIT – IV			
2	a) Explain in detail about Lexical-Analyzer Generator Lex.	4M	L4	C224.4
	b) Distinguish between Scanning & Parsing.	4M	L2	C224.4
	OR			
3	a) Explain in detail about LL(1) Parsing.	4M	L4	C224.5
3	b) Explain in detail about any one Bottom-up Parsing.	4M	L4	C224.5
	UNIT – V			
4	a) Explain in detail about Operations on Symbol Table.	4M	L4	C224.6
	b) Explain in detail about 3 Representations of Intermediate Code Generator.	4M	L4	C224.6
	OR			_
5	Explain in detail about Storage Allocation.	8M	L4	C224.6
	UNIT – III		1	•
6	Explain about Turing Machine as a Comparator.	4M	L4	C224.3
	OR			
7	Explain about Recursive Language and Recursively Enumerable Languages.	4M	L4	C224.3
