

Subject Code: PC501IT		AY:2024-25		
 MATRUSRI ENGINEERING COLLEGE (An Autonomous Institution) 16-1-486, Saidabad, Hyderabad-500059 (Approved by AICTE, Affiliated to Osmania University) 				
Department of Information Technology				
B.E. V-SEM Assignment -IV				
Subject: AT (PC501IT)		Marks: 10 M		
S.No.	Questions	Marks	BL	CO
1	a) Construct a PDA which recognizes all strings that contain equal number of 0's and 1's. b)A PDA is more powerful than a finite automaton. Justify this statement	2 M	L2	CO4
2	Construct PDA from the following Grammar S->aB B->bA b A->aB	2 M	L4	CO4
3	Construct PDA from the following Grammar S->0BB B->0s 1S 0 Show an ID for the string 010000 is generated for PDA?	3M	L4	CO4
4	Construct an equivalent PDA for the following CFG s->aAB bBA A->bS a B->aS b	3 M	L4	CO4