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
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Subject: AT (PC501IT) Marks: 10 M					
S.No.	Questions		BL	СО	
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	