TUTORIAL NO:5

Subject : TCS

Semester: IV

Course Outcome	CO3		
Question No.	1 a	1b	Total
Marks Obtained			
Marks Allotted	10	10	20

Name:

Batch:

Roll No. :

Signature of Faculty:
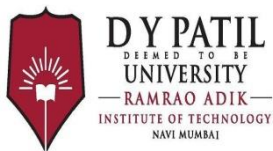
		Department of Computer Engineering **Academic Year: 2022-23(EVEN)**			

TUTORIAL NO:5

Subject : TCS			**Semester: I**V		
1.	a	Design PDA for language $F = \{ a^{2n} b^{3n} \mid n \geq 0 \}$	CO4	BT4	10M
1.	b	Compare FA and PDA. Explain different operations of PDA with example.	CO4	BT3	10M

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Course Outcomes (CO) Students will be able to:

CO1: Identify the central concepts in theory of computation and differentiate between deterministic and nondeterministic automata, also obtain equivalence of NFA and DFA.

CO2: Infer the equivalence of languages described by finite automata and regular expressions.

CO3: Devise regular, context free grammars while recognizing the strings and tokens.

CO4: Design pushdown automata to recognize the language.

CO5: Develop an understanding of computation through Turing Machine.

CO6: Acquire fundamental understanding of decidability and undecidability.

Bloom's Taxonomy

BT1- Remember, BT2- Understand, BT3- Apply, BT4- Analyze, BT5- Evaluate, BT6- Create

Subject Incharge   **DQA Member**   **HOD**