	\times			\times 0	\times		Xo	<u>X</u> O	>
		Code		. Tech II Semes THEOI			HYDERABA		
		Note:	Part B consists	npulsory which of 5 Units. Ans	carries 25 man	rks. Answer all question from eastions.	questions in		
	Х	$\langle \bigcirc \rangle$	XO	\times 0	PART - A	\times	5×5 Ma	nrks = 25	\rightarrow
	X	1.a) b) e) d)	Write a CFG for Define Turing N What do you me	r EVEN palindro Machine ean by Turing Ro	gular Expression. omes. educibility? Expla Discuss briefly. PART - B		XO	[5] [5] [5] [5]	>
							5 × 10 Ma	rks = 50	
	X	2.a) b) 3.		accept strings w A for the follow	ith c and d such the	ch that the string hat number of d's		by 4. [5+ 5]	×
	, ×	() b) 5.a)	Convert the follows: $S \rightarrow ABA$ $A \rightarrow aA \mid$ $B \rightarrow bB \mid$	win Automata fo owing grammar A ϵ	r the language L= OR to Chomsky Norr	$n \ge 1$ }. ={ ww ^R w \in (0+) mal Form and sim	X ()		×
	\rightarrow	b) (6) 7.		Machine L={a ⁿ b	X 2 A	ng language.	\times 0	[10] [10]	×
		8.	What is decidabi	ility? Explain at	least 4 decidable	problems.		[10]	
$\langle \bigcirc \rangle$	\rightarrow	(9)	What do you me	an by Halting Pr	OR roblem of Turing	Machine? Discus	s briefly:	[10]	X

