	Subject :- A. T. Experiment / Tutorial / Assignment No. :- 7	age :-
Q.1	Sequence of a's should be pushed onto the	stack
	in state 2s.	
,,	S(20, a, 20) = (20, a, 20)	
ic	An a should be popped for every b as input	tillthe
	end of input.	A
111.		,
įv.		rate the
=	finally symbol 20 should be sopped out to	
V ·	Stack empty. 8(2, E, 20) = (2, E)	
V .	T	704.5
in adaption	a, zo aze Siale Diale	
	->20)	
	Transition triction 5(90,02) = (90,020)	
	S(20, 9, 70) = (9, 020) S(20, 9, 0) = (4.80, 90.81:2015 Certified)	
	$S(90, b, a) = \frac{1}{2} A_{3} a a NAAC Accredited$	
	$\xi(2, b, a) = (2, \xi)$	the same of the sa
	$S(2, \xi, z_0) = (2, \xi)$ $S(2, \xi, z_0) = (2, \xi)$	9 7
	Ta acabbb	The second of
400	a a a a a	
	ital sole! Zo Zo ovlen sole	1 Sule 5
	with the sole 2 sole 2	
	According to the second	,
,		
- 100		
100 20		

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Q.2	in for every '() push one x in in for every '() push one x in in for every '() push p into iv. for every ') pop x for v. for every ') pop x for	stack Stack	
	Transition diagram Example [{()}] Y P X P Zo Zo Y Y initial push push por (C) ({}) ({})	Y [20] J Z0 P0P P0P (20) (3) (3)	

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<u> </u>		- 1
(;	Zo (to prost), jutput 101 -) S(20, 0, 20)	= (90,020)
- 11)	Zo (top most) j'intput 1! -) S(20,1,20)	= (90, 120)
- 11	20(topmost) impot (0' -) . S(20,0,0) =	(90,00)
iv)	1 (topmost) / hp Ut 1 3 (W)	= (90,11)
v)	0 (topmost), input 11 -) & (20,110)	= (90, 2)
	1 (topmost), input 101 -) S (90,0,1)	- (0,0,0)
	7	
	Transition diagram	
	$\rightarrow (20) \xrightarrow{\mathcal{E}_1} 20/20 \textcircled{E}$	
	0,20/020	· Vige
	0,1/8	
	110/8	
	1/1/11	THE STATE OF THE S
	1,20/120	7
	150 9001:2015 Certified	* VIII. (** 1991)
	Transition function BA and NAAC Accredited	
	& (90,0,20) = (90,1020)	
	S(20, 1, 20) = (90, 120)	
	$S(q_0, 0, 1) = (q_0, \varepsilon)$	The second secon
	$\delta(q_0,(1,0) = (q_0,E)$	
	8 (90,0,0) = (90,00)	
- Marie	8 (90, 1, 11) = (90, 11)	
	8(90, E, Z0) = (91, Z0)	
		· · · · · · · · · · · · · · · · · · ·
		-
	To the second se	

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5.	for every	e 1x1 will be popped.	ushed and fox
		2) di 20/20	
	Gule Gale	b, 2/22 b, 2/22 B	
	E, Zo/E Transition for $S(40, b_1 Z_0)$	= (9,20)	
	$S(q_{0}, b, u)$ $S(q_{1}, d, u)$ $S(q_{0}, c, u)$	= (22, 20) $= (2, 12)$ $= (2, 12)$ $= (22, 21)$ $= (22, 21)$ $= (23, 20)$ $= (23$	
Control of	S(93, E, 20) Zo Zo Zo Initial state 9,	1 / 1	
	73 20	-> Empty Stack.	
700 mm			
	5791		

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8. S-) aAA A-) aS/bS		
	diagrami-	
S (90, E,	Zo) = {(q, Szo)}	
8(9,0	$(3) = \{ \{ \{ \{ \{ AA \} \} \} \}$	
5 (2, 1, 9	$(A) = \{(2, 5), (2, \xi)\}$	
8(9,,8	$(70) = \{(q_2, \sharp 70)\}$	
Example.		· · · · · · · · · · · · · · · · · · ·
Sapabo	1000, Zo) -) S(E, abaaaa, Si	20) 2 (SA 70)
- > > (9,)	bagga, 20) -> \$(2,, abagga, 5) bagga, AAZo) -> \$(9,, aga 5-) AA	75
	aaa, AAAZo) -> S(2,0a, A	A 70)
	The second secon	500
>S(q1, a1	AZO) -> 8(9, E, Zo) -> d	(2, E, Zo),
A -> E	A > E	
		· · · · · · · · · · · · · · · · · · ·
	<u> </u>	
		3 T T T T T T T T T T T T T T T T T T T
(20)		

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9.	If input string	is given infix from we	Com
	Input A * B *	<u>C</u>	· · · · · · · · · · · · · · · · · · ·
	Profix ** AB	1 1 7 8	
	Let ox PDA be	S, T, 20, Zo, f)	
	Transition for	edian :	
	1 . Sec		
	S(90,+,20) =	(90 1×20)	
	S(90, -120) = S(20, *, Zo)	= 190 ix20)	
	\$ (90,1,20)	= (90, × 20)	, Nail
	010111	(91.X)	
	S(90, L,x)	(22/E)	
	$\begin{cases} (7, \xi, z_0) \end{cases}$	= (93, 20)	-
		rea analyanis Certified	10 10 10 10 10 10 10 10 10 10 10 10 10 1
	Transition diags	ISQ 9001:2015 Certified 8/1-an/i-23/AC Accredited 1, 20/34 20	
	-> (20) - 20/ × 20 ,	1,20/2620	
	C ₁ 7/X		· · · · · · · · · · · · · · · · · · ·
	(2) 1/2r) E	20/20 (3)	ÿ
	- 4 ×18		
-			t vide vide sidera i
g0 ;		and the second s	
550			
		·	

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10.	S-) asa bsblable		Set.
	3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		
٩,	Removal of null productions:	,	
	S-> asa bsb a b aa bb		
	Converting it to CNF STAC BOLA BB	,	
	A + 19 B + 16		
	C > SA PDA is given by. D > SB M = (Q, E, S, T, Zo, f).		· · · · · · · · · · · · · · · · · · ·
	$\mathcal{E} = \{a_1b_3^2 \\ T = \{S_1A_1B_1C_1D_1Z_0\}^2$		Same -
	T= 451A, B, C, D, 203		
reserv	Transition function: $\delta(Q_0, E, S) = (Q_0, S)$		
	8 (20, K, S) = (20, C)	* cb	
	S(90,18,5) = (90,0) S(90,A,5) = (90,E)	, a meninggap and	
•	$S(Q_0, B, S) = (Q_0, E)$ $S(Q_0, A, S) = (Q_0, A)$		
	$\delta(20, B, S) = (20, B)$		
	Transition & diagrami-		
-0.00	$\frac{\sum_{i} s/s}{A_{i}s/c}$		
	A 15/E B 15/E	•	स्तरा र प्रभावत
	A, S/A B + S/A		
		9:35	