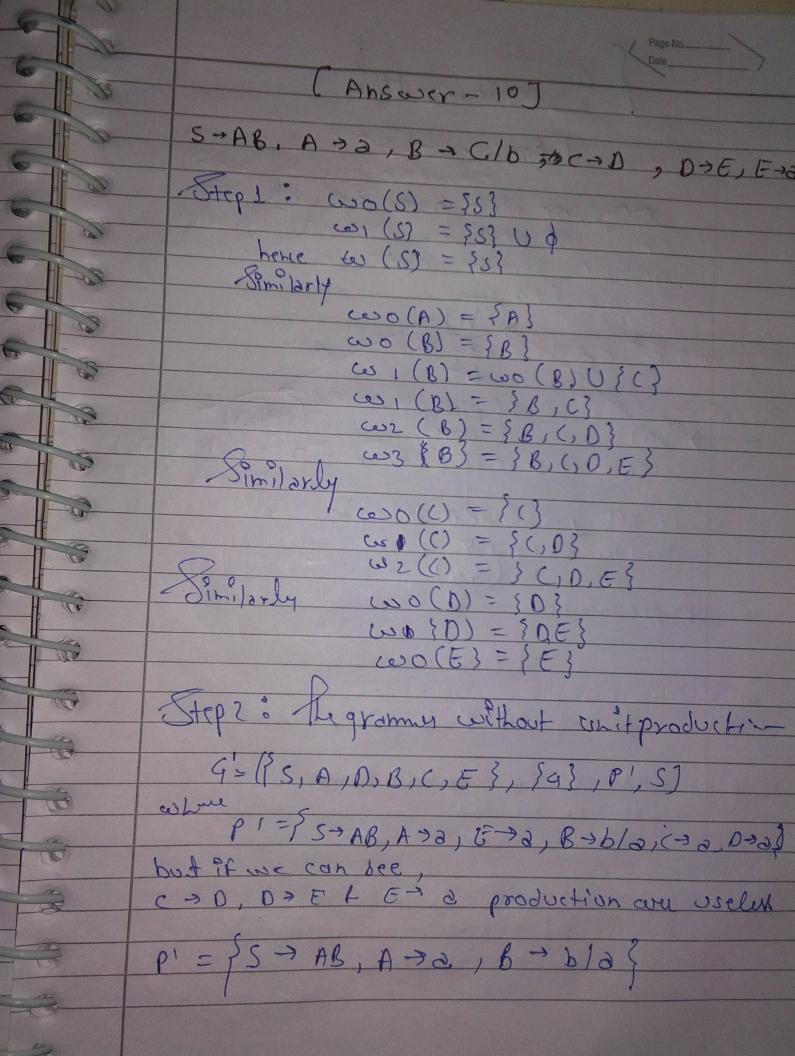
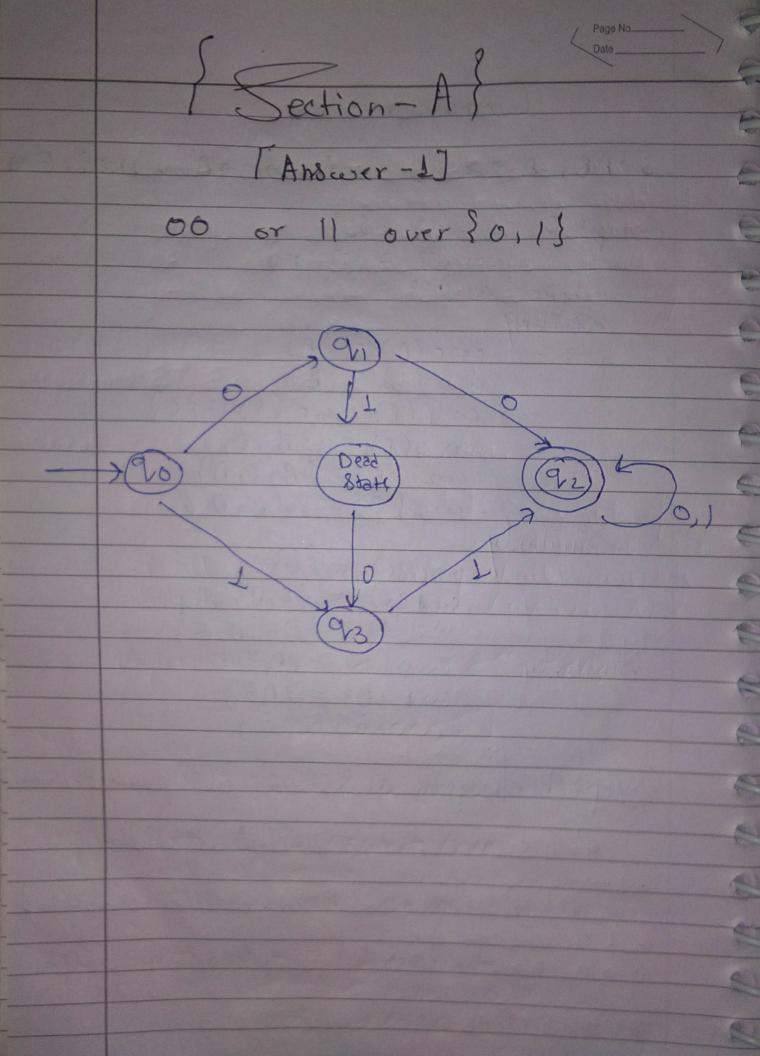
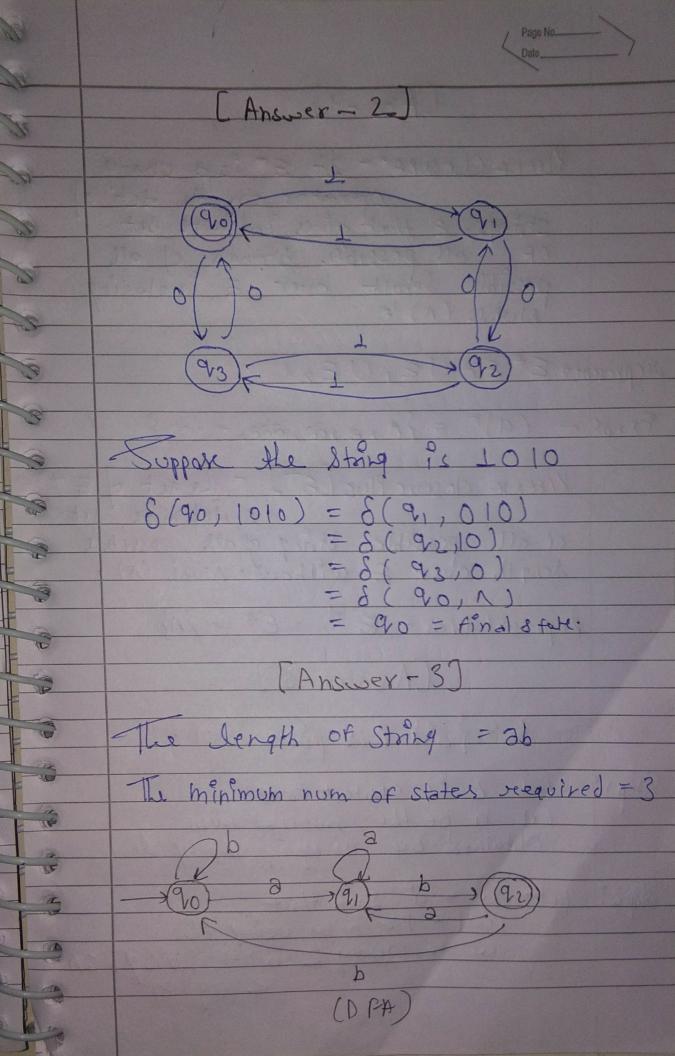
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	1000	
	Cetion-BI	
	[Answer-6]	
201	p & e e	
	Relation Reflexive.	
	Relation & Reflexive Relation & Symmetric Transitive	*
9	Pech P	- 5
	leflexive - If 8(21,0) = 8(21,0) then	É
	9, 192 4 3 E E	-6
	9, fg2 Y dEE .: fisa xeriexive	É
11/	Symmetric - 9f $\delta(9,10) = \delta(9,2)$ $\delta(9,00) = \delta(9,00)$	E
	8(92,a) = 8(91,a)	6
	9, 00, - C 00	
	P E is a Symuthic	-
iii)	(ransitive - if 8(9,0) = 8(920) - ()	-
(0(12)0) = 0(91)01 - (1)	0
	8 (91 12) - ((2 -)	8
	1. 91R93, eV1R924 92. R9	-
	Thomsore Pica La Oca	3
	Thomsore, lisa transitive	~
	hence, l'es à equivalence le lation.	60
		8
		BU

[Answer - 8] S - aAa, A -> Sb/bcc/DaA, C+abb/DD E > aC, D > aDA Sol' Step-1(a): Construction of viv w, = {c} as · C → abb co2= {wi}U) F, A} as E -> ac, A > bcc wz = { c} U { E, A} W2= } A, E, C } w3= w2 U ?S? w3= {S,A,E,C} wy= w3U0 VN' = { S, A, E, () Step 1 (b) - Construction of P' PI= JA - X/A PI = {s -> aAa, A -> b(C/Sb, c -> abb E -> ac · G' = ({ S, A, E, C}, {a, b], P', S) Step 2: w1 = {53} as 5 + a Aa wz = will fA, al as A > sb/bcc w2 = {5, A, 2} 63 = \$5, A, 23 U \$5, b, C] cos = \$5, A, a, b, C} (= 000 = w?

	Page No	
	:. VN" = {S,A,C}	针
	p" = { S -> 2 A 2 , A -> 5 b / b (C : C -> 2 b b) }	
	Fruitur (1 = ({S.A,C3, {a,b} >1",S}). is reduced grammy.	
0	[Answer-9]	
	S=aS /AB, A-> N.B-> N, D-> b	
Jol'-	Step 1° - Construct of the set wof all null variables -	
	$COS = \{A, C, N, A \rightarrow N \}$ $COS = \{A, B, B, 3 \text{ as } A \rightarrow N \}$ $COS = \{A, B, 3 \text{ as } A \rightarrow N \}$ $COS = \{A, B, 3 \text{ as } A \rightarrow N \}$ $COS = \{A, B, B, S \}$ $COS = \{COS \text{ as } S \rightarrow AB \}$ $COS = \{COS \text{ as } S \rightarrow AB \}$	
	Thus, \(\omega = \left\{ S, A, B\}	The state of the s
	5tep-2- Construction of P'	1
0 1	0-> b is included in! 5-25 givet seize to 5-28 fs-2	
	how, the required grammer without hull GI = (\$5,A,B,D), \$9,B), P1, S)	132
	p1= \$8708 ,570,57 AB,57 A,54 B, 07 b}	6





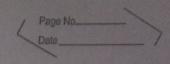


CAM-4] RECENE CLOSURE* - It E* 95 a whary Strings, & that gives infinite set of of all possible strings of all possible strings of all possible length over & including NULL (N): represent 2 E* EOUE, UEZU ---Exept - (a)* = {A, 2, 20, 222, ---} VIENTE CLOSURE Plus [Et] - The set of Et of all possible string of all possible Jength over E without NULL (N). Representation - E + - Ex - Fn} (Answer-5) L= }ap} pis prime iskot. Let h be the natural hum Obtained by Using pumping line Step 1: Stop?: Let w= of such that

|w| = p > h by using PC

w = wxxy z with 1 vx y 1 c

4 |vy | z |



Uvixy = ap-r-s+-marasatam U= ap-8-5-4-m, V= ar, x = as y= at z=am 8/93: For 3 = P+1 1-it/+ [1-iV/+[26x70]= 2itagn = | 3 | + | 2 × (3 - 1) | + | 3 + (1 - 1) = p+r(i+1)++(i-1) = P+x(P+1-1)++(P+1-1) = P+xp+JP - P(1+2+t) Since, Pis prime but P(1++++) is not aprime.

3

S

9

9