USAMA SARWAR

FA17-BCS-090-B

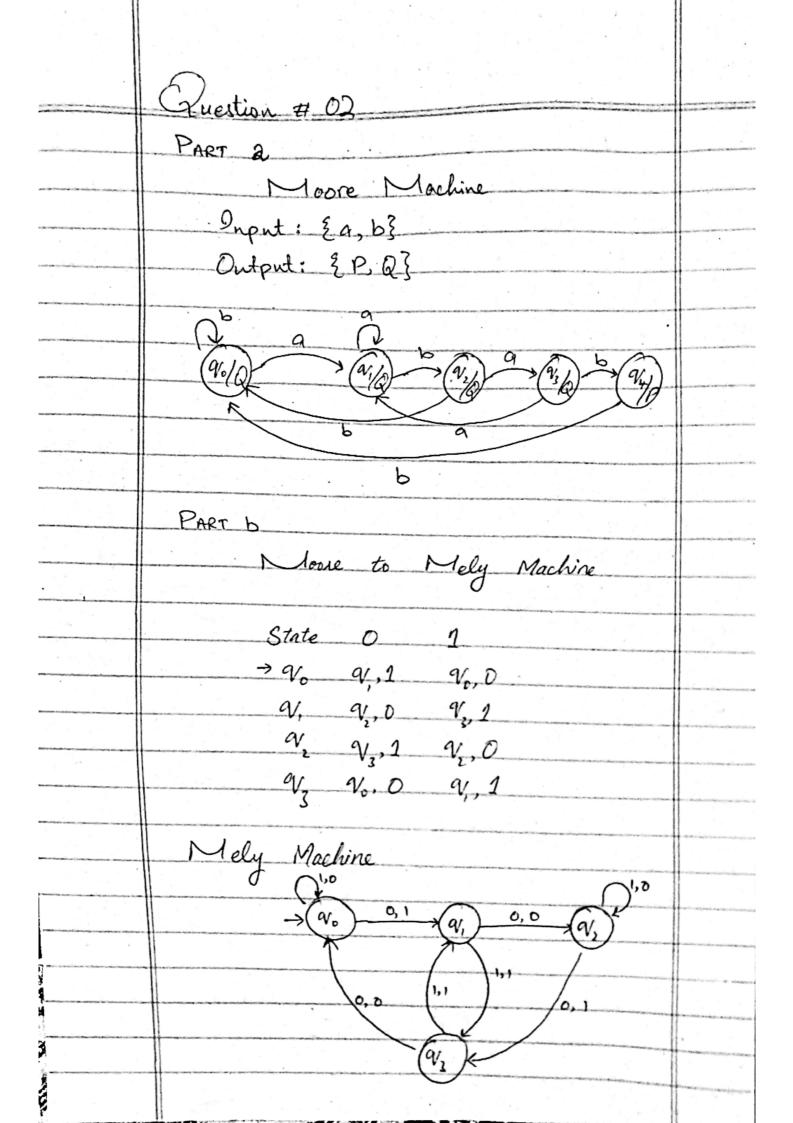
		O4 A
		Pa # 1
	Question # 01	
	PART a	
	(i) Construct the CFG	
	$L = \frac{20^{i}1^{j}2^{k}}{j > i + K}$	The state of the s
	$S \rightarrow ABC$	
	$A \rightarrow OA1 E$	
	$B \rightarrow 18/1$	
	C → 1C2/E	
	(ii)	
	$S \rightarrow XY$	
	$X \rightarrow Zb \mid b$	
	Y -> bw/b	
	$Z \rightarrow AB A B$	
-	$W \rightarrow Z$	
3	$A \rightarrow aA bA a b$	
-	B -> BalBblalb	and the second s
	PART 6	
	Converting into GNF	
- Company of the Comp	$S \longrightarrow XA BB$	
-	$B \rightarrow b \mid SB$ $X \rightarrow b$	
warm with the same fine training	$A \rightarrow a$	
		1

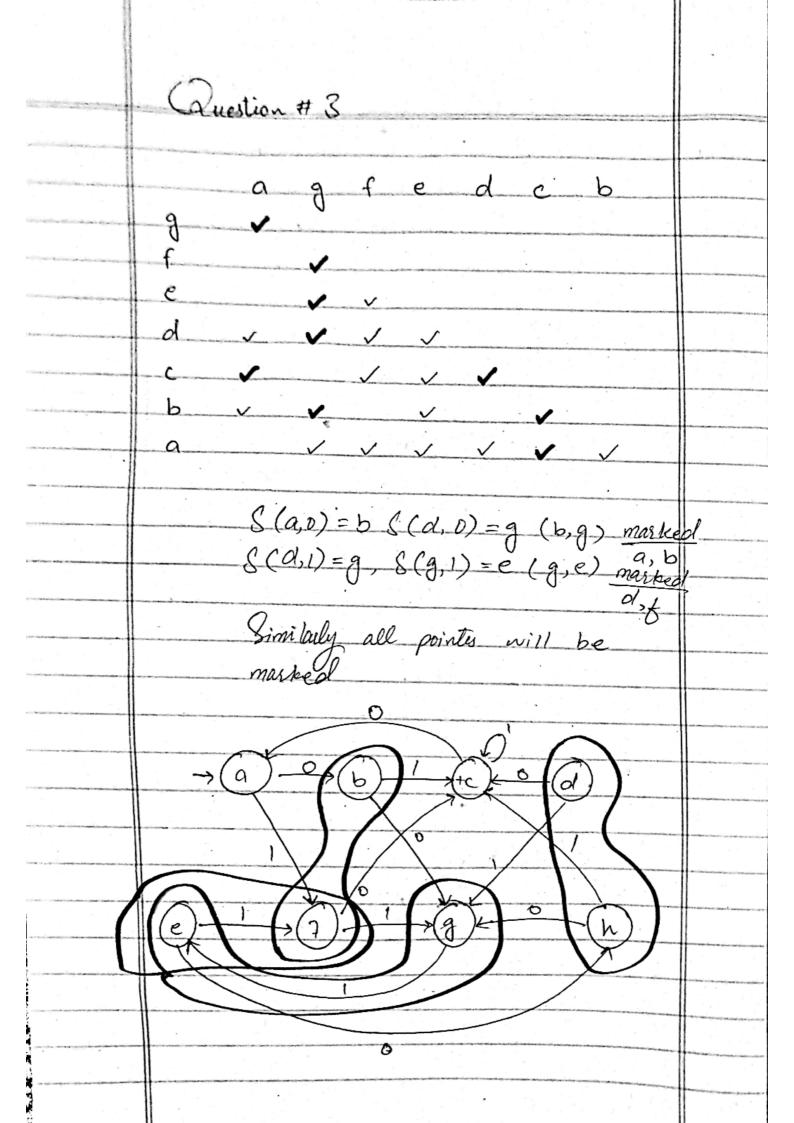
Step 1 S -> XA | BB B > b | XAB | BBB $X \rightarrow b$ Step 2 S -> bA BB B > b| bAB| BBB $\chi \rightarrow b$ $A \rightarrow a$ Step 3: Removing left secursion S -> bA|BB B → bC | bABC C → BBC/E X > b $A \rightarrow a$ Step 4: Removing rull production S -> BAIBB B -> bc/ bABC/ b/bAB C > BRCIBB X > b $A \rightarrow q$

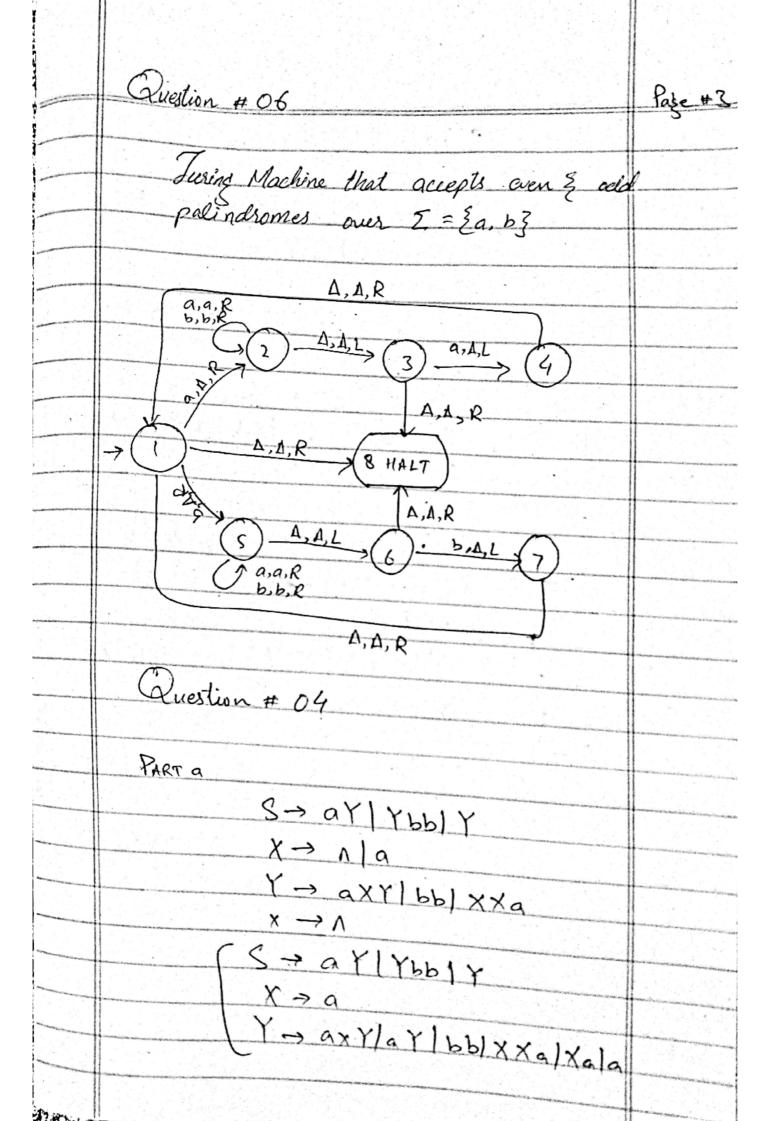
and the same		The second secon
- Andrews - Andr	Step S: Substituting B>	and we have to the state of the
	S -> bA bCB bBCB bB	BABB
	B → bC bABC b bAR	and the second s
	C → BBC BB	Market Cappings on the set of capping because of the set of capping set
	X → 6	
	$A \rightarrow q$	
	Step 6:	
	S -> bA bCB bABCR bB	ABR
	B → bc/bARC/b/bAB	
	C > BBC	A production of the second sec
	C > bCB bABCB bB	ARR
	X → b	011313
	$A \rightarrow a$	
	Step 7:	
	S > bA bCB bABCB bB	11 100
	B > bc/basc/b/bAB	1 bASK
	C -> bCBC bABCRC1bBC	
	C -> bCB bABCB bB bABB	BABKC
A Committee of the Comm	X -> 6	and the second companies and the control of the con
	$A \rightarrow a$	Martin and Martin control of the second cont
		of all and deep arts of the first of the state of the sta
		Annual Congress Constitution Constitution
The reserve (i) has have been properly the		Mineral manning and was recognished to report the a
		The total and the second section of the section
the specific printer may have		er en minist gegetterte hjellegt here viget i versette op viget i de seg
and the second second		Company of the contract of the

PART C Converting into CNF S > ASA/aB A > BIS B> ble Step 1: Adding new start Symbol S -> ASA JAB A 7 BLS B > 6/8 Step 2: Removing & from B · S > ASAJaBja A > RISIE B → b Step 3: Removing & from A S -> S S -> ASAJaBJaJASJSAJS A -> BIS B > b Step 4: Removing unit rule So > ASA (aB/a) AS/SA S - ASALABIALASISA A > BIS

	Panoz
Step S: Remove the sule for A->R	Security of the security of th
SO > ASA aB a SA	Protection of the contribution of the contribu
S -> ASAIaBlalASISA	The second secon
A > S1b	eraphaniana sammun haganin (ana) (de aga) (Peli M
$R \rightarrow b$	And the second s
Step 6: Remove the rule for A-S	The state of the s
SO 7 HSA / a BlalASICA	
ASA JABIA JASISA	
A > 61 ASA LABIALASISA	
C+ C	
Step 7:	
So > AA, IA, BI a JASISA	
SA	
$A_{\lambda} \rightarrow a$	
S -> AA, IA, Ba I ASISA	
DI AA, IA, BlalAsleA	and the second
B + b	
11	and the second s







S -> ar Ybb a	
$X \rightarrow a$	n kant i distribution salah sa
Y -> axy a Y bb x Xa Xa	ġ
S > a Y YY a	and the second second
$X \rightarrow a$	and the contract of the contract of
Y - axylaylbb/xxa/xa/	
S > XY/YY/a	Charles and Marketing Confession Sections 19
$X \rightarrow a$	
Y -> axylay bb xxa xa	b
S -> XX/YY/a	ne version de reconstruction de
$X \rightarrow a$	and the state of t
Y >> XXY XY bb XXX XX	19
S > XYIYYIa	note the second section of the second second
$X \rightarrow c_1$	agent an account of the first
Y -> RY/XY/bb/RX/R/c	olah di sangan kelengan pelinah
$R \rightarrow XX$	osa i saurėlininininkas idėrini.

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