



Daffodil International University
Department of Computer Science and Engineering
Faculty of Science and Information Technology
Assignment Problems
Semester: Spring 2026
66-C+D+G+H Section; 66 Batch

Name:

Id:

Section:

1.	Draw the following Table in your answer booklet and Find the FIRST() and FOLLOW() functions from the following productions, also produce LL(1) Table		
(a)	Productions	FIRST ()	FOLLOW ()
	$S \rightarrow A$		
	$A \rightarrow BC \mid DBC$		
	$B \rightarrow bB' \mid \#$		
	$B' \rightarrow bB' \mid \#$		
	$C \rightarrow c \mid \#$		
	$D \rightarrow a \mid d$		
(b)	Productions	FIRST ()	FOLLOW ()
	$S \rightarrow PQRDM$		
	$P \rightarrow x \mid Rq \mid \epsilon$		
	$Q \rightarrow y \mid dP \mid \epsilon$		
	$R \rightarrow z \mid f$		
	$M \rightarrow a \mid b \mid c$		
(c)	Productions	FIRST ()	FOLLOW ()
	$S \rightarrow (L) \mid Eb \mid a$		
	$L \rightarrow cL' \mid (L) L' \mid EbL' \mid aL'$		
	$L' \rightarrow , SL' \mid \epsilon$		
	$E \rightarrow [E] E' \mid cL' c E' \mid (L) L' c E' \mid aL' c E'$		
(d)	Productions	FIRST ()	FOLLOW ()
	$S \rightarrow ACB \mid CbB \mid Ba$		
	$A \rightarrow da \mid BC$		
	$B \rightarrow g \mid \epsilon$		
	$C \rightarrow h \mid \epsilon$		

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