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Section:

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

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 → A		
A → BC | DBC		
B → bB' | #		
B' → bB' | #		
C → c | #		
D → a | d		

(b)

Productions	FIRST ()	FOLLOW ()
S → PQRDM		
P → x | Rq | ε		
Q → y | dP | ε		
R → z | f		
M → a | b | c		

(c)

Productions	FIRST ()	FOLLOW ()
S → (L) | Eb | a		
L → cL' | (L) L' | EbL' | aL'		
L' → , SL' | ε		
E → [E] E' | cL' c E' | (L) L' c E' | aL'cE'		

(d)

Productions	FIRST ()	FOLLOW ()
S → ACB | CbB | Ba		
A → da | BC		
B → g| ε		
C → h| ε		


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