Total No. of Pages: 1 SIXTH SEMESTER	B. Tech.	
MID SEMESTER EXAMINATION	March-2019	
SE306 COMPILER DESIGN		
Time: 1:30 Hours	Max. Marks: 25	
Note: All questions are compulsory. Assume suitable any.	missing data, if	
Q.1 Explain all phases of compiler in detail with suitable ex	ample.	[4]
Q.2 (a) Derive the string 'aababa' using right most derive Context Free Grammar (CFG), also draw it's parse tree S →aSX/b		ving
<ul> <li>X → Xb/a</li> <li>(b) Draw transition diagram for identifiers and reserve</li> </ul>	ed words.	[3] [2]
<ul><li>Q.3 (a) How left recursion affect the parsing? How we remothe grammar, Explain with example.</li><li>(b) Write down Difference between top down and bottom</li></ul>		m [4] [2]
<ul> <li>Q.4 (a) Explain the algorithm to construct the LR (0) parser</li> <li>(b) Construct SLR (1) parsing table for the given grammer S → (L)/ id</li> </ul>		[2]
$L \rightarrow S/L,S$		[4]
Q.5 (a) Explain the structure of LL(1) parser with the help of (b) Calculate FIRST and FOLLOW of the given gramm		[2]
S $\rightarrow$ A, A $\rightarrow$ aB / Ad, B $\rightarrow$ b, C $\rightarrow$ g	11111	[2]

END