Compiler Theory Assignment 3 Satul Jindal Parsing 186510048 (a) a+b*c+(d*e) = abc*+de*+ (b) a-b-c => ab-c-(c) a * (b+c)/d => a bc+ *d/ (d) (a+(btc))/(d-e) => abc*+de-/ Ans2 S-> a ABe Augmented Grammar: 5'-> S A -> Abc/b S→aABe B>d A -> Abc A >b B-> d FIRST (S) = {a}, fIRST (A) = {b}, fIRST (B) = {d} FOLLOW(S) = {\$3, FOLLOW(A) = {6,d3, FOLLOW(B) = {e}. L(G)=ab(bc)*de

Parse Table										
State	a "	b	<u>C</u>	d	e	\$	5		4	B
0	s2					•	1			
1	g.					Accept				
2 ,		54				1		7	3	
3		55		57						8
4	13	γ3	83	83	χ3	(3				
5			56							
6	82	Y 2	72	82	12	×2				
7	24	74	74	14	84	24				
8					59					
9	1	γ (71	18/	71	81				
input w=abbcde										

Step	Stack	Symbols	Input	Action
1	0		ab bcde\$	52
2	02	a	bbcdes	sy
2	024	ab	b cde\$	Y3
4	023	a A	bcdes	155
5	0235	aAb	cde\$	36
6	02356	aAbc	des	72
7	023	la A	de	57
8	0237	la Ad	e \$	1 24
9	0238	a A B	es	39
10	02389	a ABe		31
11	01	<		7
1 1				Accept
2200				•

S -> at Be -> at bebe -> abbebe -> abbede