No.: Date:

Tutorial Week 11

a) 1. S → bAB [b]
2. S → aS [a]
3. A → bc [b]
4. A → CB [c]
5. B → a [a]

b)

	a	b	c	$
S	Replace ({s}a) Return	Replace (BAb{s}) Return	Reject	Reject
A	Reject	Replace (cb) Return	Replace (B{A}c) Return	Reject
B	Replace (a) return	Reject	Reject	Reject
a	Pop Advance	Reject	Reject	Reject
b	Reject	Pop Advance	Reject	Reject
C	Reject	Reject	Pop Advance	Reject
{s}	Pop retain out {s}	Pop retain out {s}	Pop Retain out {s}	Reject
{A}	Pop retain out {A}	Pop retain out {A}	Pop Retain out {A}	Reject
∇	Reject	Reject	Reject	Accept

c)

```
void S()
{ if (inp == 'b')
    { getInp();
System.out.println (s);
A();
B();
}
else if (inp == 'a')
    { getInp();
System.out.println (s)
}
else Reject();
}
```

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```
void B()
{ if (inp == 'a')
    { getInp();
}
else Reject();
}

void A()
{ if (inp == 'b')
    { getInp();
    C();
}
else if (inp == 'c')
    { getInp();
System.out.println(A)
B();
}
else Reject();
}
```

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q)

	a →	a S (S) ▽	→	S (S) ▽	b →	(S) b A B (S) ▽	→ Out(S)	b B B (S) ▽	→	A B (S) ▽	c →
S ▽											

(A) B A (S) ▽	→	(A) B A (S) ▽	a → Out(A)	B B (S) ▽	→	a B (S) ▽	→	B (S) ▽	a →	a (S) ▽	→

	enter →		→	accept
(S)	Out(S)			