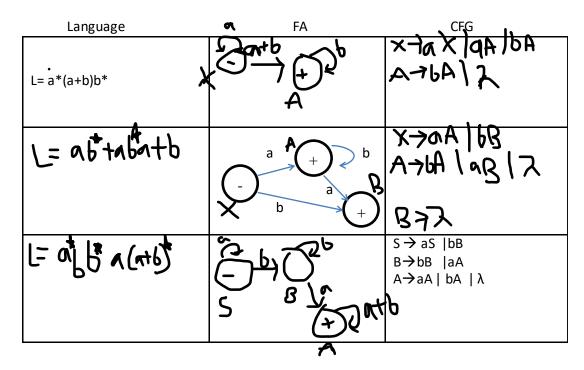
## Computer Science 455 Assignment No.1

Sean Richard Monthy Gresham

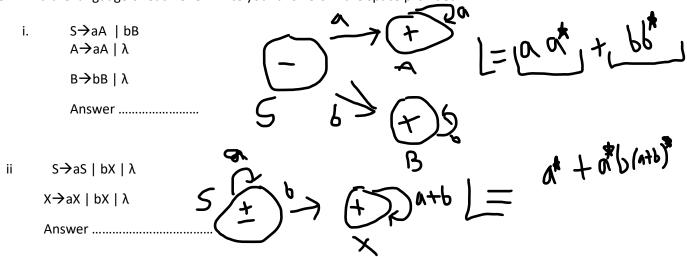
1. True or false? Circle your answers

i. L=a*ba*	ab is a member of L	True/false
	ba is a member of L	false
	lambda is a member of L	True/false
ii. L=a*b*	a³b² is a member of L	false
	b⁴ is a member of L	<b>√rug</b> /false
iii. L=a* + b*	a⁴b is a member of L	True/false
	b⁵ is a member of L	true/false
iv. L=(a* + b)*	a is a member of L	True/false
	bab is a member of L	True/false
v. L=(ab)*a	a(ba) <sup>3</sup> is a member of L	True/false
	ababa is a member of L	false
vi. L=a(aa)*(λ+a )b	a*b is a member of L	True/alse
	aab is a member of L	True/false
vii. L=(a+b)*(aa+bb)	aaa is a member of L	True/false
	aabb is a member of L	false
viii. L=(aa)*(λ+a)	a⁴ is a member of L	(rue) false
	a <sup>7</sup> is a member of L	trug/false
	L=a*	trug/false

2. Complete the following table. Write your answer in each box



3. Find the language of each CFG. Write your answers in the space provided



## 4. Programming assignment

Write a program to read a postfix expression and display its numeric value. Suppose a=5,b=7,c=2,d=4

## Sample Input/Output

```
Enter a postfix expression with $ at the end: ab+cd*+$
                  Value = 20
         CONTINUE(y/n)? y
         Enter a postfix expression with $ at the end:abcd+++$
                  Value = 18
         CONTINUE(y/n)? y
         Enter a postfix expression with $ at the end:abcd*-*$
                  Value = -5
         CONTINUE(y/n)? n
Directions. Include the following information at the beginning of your program
        //-----
                  Group names: Smith, John and Brown, Anna
        //
        //
                  Assignment: No.1
                  Due date
                            : .....
        // Purpose: this program reads an expression in postfix form, evaluates the expression
        // and displays its value
        //-----
        Comment all functions and class members.
```

Copy all question and your answers, your program and its sample run in ONE words/PDF document and upload it by February 2, 2022, Wednesday, 7:00 PM (California time).