(DIV A) - System Software Quiz 1 (03-03-2022)

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BHAGYA VINOD RANA	
1. Question *	
The most common use for ORG is to specify address for the program in a compute	re
without an operating system.	
a. Start	
b. Compilec. Bind	
d. End	
A	
ОВ	
O C	
O D	

2. (Question *
Th a. b. c. d.	imperative statements, ASCII code and assembler directives
•	A
0	В
0	C
0	D

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3. Question * Given the following source program: Show the content of the symbol table at the end of PASS 1. **START 100** MOVER AREG, X MOVER BREG, Y ADD AREG, X MOVEM AREG, X X DC '10' Y DC '15' **END** a. Symbol X - 100, Y - 101 b. Symbol X - 104, Y - 103 c. Symbol X - 103, Y - 105 d. Symbol X - 104, Y - 105

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If the parameter and arguments were associated with each other according to their position in the macro prototype and the macro invocation statement, then these parameters in macro definitions are called as ----- parameters.

- a. Keyword
- b. Positional
- c. Keyword and positional
- d. Passing

5. Question *

Expansion time loops can be written using expansion time variables and expansion time control transfer statement ----- and -----.

- a. MACRO, MACROM
- b. START, ORIGIN
- c. AIF, AGO
- d. START, END

What is the lexical expansion of the model statements. Following the rule of positional association, values of the formal parameters are:

MACRO

INCR_M &MEM_VAL, &INCR_VAL, ®

MOVER ®, &MEM VAL ADD ®, &INCR_VAL MOVEM ®, &MEM_VAL

MEND

formal parameters value MEM_VAL Α INCR_VAL В AREG REG

- Lexical expansion of the model statements now leads to the code as follows:
 - MOVER AREG, A ADD AREG, B MOVEM AREG, A
- Lexical expansion of the model statements now leads to the code as follows:
 - MOVER AREG, A MOVEM AREG, B ADD AREG, B +
- Lexical expansion of the model statements now leads to the code as follows:
 - + MOVEM AREG, A ADD AREG, A MOVER AREG, A
- None of these

7. Question *
A model statement contain call for another macro is called as a. Referential macro call b. Nested macro call c. Inbuilt macro call d. All of these
O A
B
○ c
O D
8. Question *
State true or false: Statement: A->A B B-> ϵ is an ambiguous grammar a. True b. False
A
ОВ

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A language L is defined by L = $\{0^n 1^n \mid n \ge 1\}$. Which of the following definitions generates the same language as L?

- a. E → 0E1 | 01
- b. (01) | (0011)
- c. 0+ 1+
- d. All of these



10. Question *

Given the following expression grammar:

E-> E * F | F+E | F

F -> F-F | id

Which of the following is true?

- a. In the given grammar * has higher precedence than -
- b. In the given grammar + has higher precedence than *
- c. In the given grammar has higher precedence than *
- d. None of the above

11. Question *
A is a string of characters which form a
a. Lexeme, syntactic unit
b. Lex, syntactic unit
c. Lexeme & Lex, semantic unit d. None of the mentioned
A
ОВ
○ c
O D
12. Question *
In a compiler, keywords of a language are recognized during-
a. The code generation
b. The lexical analysis of the program
 c. Dataflow analysis d. Parsing of the program
O A
■ B
○ c
O D

The context free grammar S -> SS | 0S1 | 1S0 | ϵ generates ------

- a. Unequal number of 0's and 1's
- b.Number of 0's followed by any number of 1's
- c. None of the mentioned
- d.Equal number of 0's and 1's

Let us now consider the following grammar:

Set of alphabets $\Sigma = \{0, ..., 9, +, *, (,)\}$

E -> 1

E -> E + E

E->E*E

 $E \rightarrow (E)$

Ι->ε | 0 | 1 | ... | 9

From the above grammar String 3*2+5 can be derived in 2 ways which 2 ways are correct:

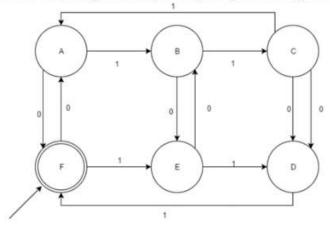
- I) First leftmost derivation
- II) Second leftmost derivation

- I) First leftmost derivation b.
- II) Second leftmost derivation

- I) First leftmost derivation
- II) Second leftmost derivation

- d. None of these

Which of the following x is accepted by the given DFA (x is a binary string $\Sigma = \{0, 1\}$)?



- a. divisible by 3 and 2
- b. divisible by 2
- c. divisible by 2 and 3
- d.divisible by 3

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The sum of minimum and maximum number of final states for a DFA n states is equal to:

- a. n+2
- b. n
- c. n-1
- d. n+1

17. Question *

Here is a context-free grammar G: S \rightarrow AB A \rightarrow 0A1 | 2 B \rightarrow 1B | 3A. Which of the following strings are in L (G)?

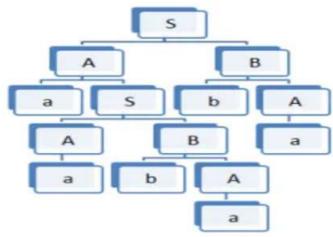
- a. 021300211
- b. 022111300211
- c. None of the mentioned
- d. Both of the mentioned

The minimum number of productions required to produce a language consisting of palindrome string over $\Sigma = \{a, b\}$ is

- a. 3
- b. 5
- c. 7
- d. 6

The parse tree below represents a rightmost derivation according to the grammar $S \rightarrow AB, A \rightarrow aS \mid a, B \rightarrow bA.$

Which of the following are right-sentential forms corresponding to this derivation?



- a. aAbAba
- aababa
- aABba
- d. aSba

20. Ques	stior	ገ *
The gramn	nar (G: S \rightarrow SS a b is ambiguous. Check all and only the strings that have exactly two
leftmost d	eriva	ations in G.
	a.	bbb
	b.	ab
	c.	Both of the mentioned
	d.	None of the mentioned
О А		
ОВ		
C		
O D		

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