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Started on Friday, 18 September 2020, 11:03 AM

State Finished

Completed on Friday, 18 September 2020, 11:30 AM

Time taken 26 mins 47 secs

Grade **25.00** out of 30.00 (**83%**)

Question 1

Correct

Mark 1.00 out of 1.00

Compiler should report the presence of _____ in the source program, in translation process.

- ☒ 1. Errors
- ☐ 2. Tokens
- ☐ 3. White spaces
- ☐ 4. Objects



Your answer is correct.

The correct answer is: Errors

Question 2

Correct

Mark 1.00 out of 1.00

A state that is not an accepting state and that has transition to itself on all input symbols is called a Dead State.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 3

Correct

Mark 1.00 out of 1.00

The ambiguity from the grammar may be removed:

- ☐ 1. By adding grouping rules
- ☒ 2. All the given options
- ☐ 3. By adding precedence rules
- ☐ 4. By adding Semantics



Your answer is correct.

The correct answer is:

All the given options

Question 4

Correct

Mark 1.00 out of 1.00

A string of terminals w is in $L(G)$, if and only if $S \Rightarrow^* w$ where w is called

- ☒ 1. Sentence
- ☐ 2. Derivation
- ☐ 3. Tokens
- ☐ 4. Grammar



Your answer is correct.

The correct answer is:

Sentence

Question 5

Correct

Mark 1.00 out of 1.00

Which of these elements does not belong to a Context Free Grammar?

- ☐ 1. Non-Terminals
- ☒ 2. End Symbol
- ☐ 3. Start Symbol
- ☐ 4. Terminals



Your answer is correct.

The correct answer is:
End Symbol

Question 6

Correct

Mark 1.00 out of 1.00

The Abstract form of a Parse Tree is called _____

- ☐ 1. Derivation Tree
- ☐ 2. Binary Tree
- ☐ 3. Decision Tree
- ☒ 4. Syntax Tree



Your answer is correct.

The correct answer is:
Syntax Tree

Question 7

Correct

Mark 1.00 out of 1.00

LEX tool is used to implement the lexical phase.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 8

Not answered

Marked out of 1.00

The trace of the leaf nodes from left to right in a parse tree denotes:

- ☐ 1. Sentential form
- ☐ 2. Derivation step
- ☐ 3. Yield of the tree

Your answer is incorrect.

The correct answer is:

Yield of the tree

Question 9

Correct

Mark 1.00 out of 1.00

Choose the incorrect statement with respect to symbol table.

- ☐ 1. Attributes include function names, no of arguments, type and method.
- ☐ 2. Data structure used to store and manage the variables from the program.
- ☒ 3. None of the given options.
- ☐ 4. Attributes include identify, scope and type of variables.



Your answer is correct.

The correct answer is:

None of the given options.

Question 10

Correct

Mark 1.00 out of 1.00

A Grammar having more than one leftmost/rightmost derivation is called _____

- ☐ 1. Regular Grammar
- ☐ 2. Recursive Grammar
- ☐ 3. Unambiguous Grammar
- ☒ 4. Ambiguous Grammar



Your answer is correct.

The correct answer is:

Ambiguous Grammar

Question 11

Correct

Mark 1.00 out of 1.00

A sequence of grammar rule applications that transform the start symbol into the string is called:

- ☒ 1. Derivation
- ☐ 2. Inclusion
- ☐ 3. Reduction
- ☐ 4. Exapnsion



Your answer is correct.

The correct answer is: Derivation

Question 12

Correct

Mark 1.00 out of 1.00

Which one of the following is a top-down parser?

- ☒ 1. Predictive Parser
- ☐ 2. Operator Precedence Parser
- ☐ 3. LR Parser
- ☐ 4. LALR Parser



Your answer is correct.

The correct answer is:
Predictive Parser

Question 13

Incorrect

Mark 0.00 out of 1.00

Identify the correct regular expression for the token "identifier",
Given that : letter→alphabet class and digit→number class.

- ☒ 1. (letter | digit)*
- ☐ 2. letter*
- ☐ 3. letter+
- ☐ 4. letter(letter | digit)*



Your answer is incorrect.

The correct answer is:
letter(letter | digit)*

Question 14

Not answered

Marked out of 1.00

Match the following :

- | | |
|----------------------------|-----------------------|
| 1.LL(1) Parser | a. Backtracking |
| 2.LR Parser | b.Leftmost derivation |
| 3.Recursive Descent Parser | c.Bottom-up method |
| 4.Top-down Parser | d.No backtracking |

- ☐ A. 1-c, 2-a, 3-d, 4-b
- ☐ B. 1-a, 2-c, 3-d, 4-b
- ☐ C. 1-d, 2-c, 3-a, 4-b
- ☐ D. 1-d, 2-b, 3-a, 4-c

Your answer is incorrect.

The correct answer is:
1-d, 2-c, 3-a, 4-b

Question 15

Correct

Mark 1.00 out of 1.00

Choose the correct statement with respect to NFA and DFA.

- ☐ 1. Neither NFA nor DFA can have null transitions
- ☒ 2. NFA can have null transitions.
- ☐ 3. DFA can have null transitions.
- ☐ 4. Both NFA and DFA can have null transitions.



Your answer is correct.

The correct answer is:

NFA can have null transitions.

Question 16

Correct

Mark 1.00 out of 1.00

The phase 'Semantic Analysis' is responsible for ____ in Compiler.

- ☐ 1. Type Checking
- ☐ 2. Check Semantics
- ☐ 3. Static Checking
- ☒ 4. All the options given



Your answer is correct.

The correct answer is:

All the options given

Question 17

Correct

Mark 1.00 out of 1.00

Regular Language \subseteq Context Free Language i.e. every regular language can be expressed by a Context Free Grammar.

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question 18

Correct

Mark 1.00 out of 1.00

The functions involved in constructing the Predictive Parsing Table :

- ☐ 1. FOLLOW() only
- ☐ 2. LEADING() & TRAILING()
- ☐ 3. FIRST() only
- ☒ 4. FIRST() & FOLLOW() ✓

Your answer is correct.

The correct answer is:
FIRST() & FOLLOW()

Question 19

Correct

Mark 1.00 out of 1.00

Consider the following Grammar:

Rule 1: $E \rightarrow E + T$

Rule 2: $T \rightarrow T * F$

Rule 3: $F \rightarrow (E)$

Identify the rule having left recursion.

- ☐ 1. Rule 3
- ☒ 2. Rule 1 & Rule 2
- ☐ 3. Rule 2 & Rule 3
- ☐ 4. Rule 1 & Rule 3



Your answer is correct.

The correct answer is:

Rule 1 & Rule 2

Question 20

Incorrect

Mark 0.00 out of 1.00

Among the given options which language is platform independent.

- ☐ 1. Machine Language
- ☐ 2. High Level Language
- ☐ 3. Low Level Language
- ☒ 4. Assembly Language



Your answer is incorrect.

The correct answer is:

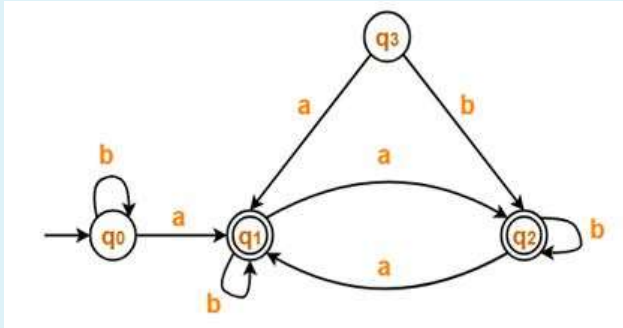
High Level Language

Question 21

Correct

Mark 1.00 out of 1.00

Identify the inaccessible state in the given DFA.



- ☐ 1. q₂ only
- ☒ 2. q₃ only
- ☐ 3. q₁ and q₃
- ☐ 4. q₁ and q₂



Your answer is correct.

The correct answer is:
q₃ only**Question 22**

Correct

Mark 1.00 out of 1.00

Which Function is used to identify the DFA states in Subset construction method.

- ☐ 1. Search()
- ☐ 2. Move()
- ☐ 3. Transition()
- ☒ 4. ϵ -closure()



Your answer is correct.

The correct answer is:
 ϵ -closure()

Question 23

Correct

Mark 1.00 out of 1.00

Specify the terminal included in FOLLOW(S) ,where S is the start symbol.

- ☒ 1. \$
- ☐ 2. #
- ☐ 3. @
- ☐ 4. &



Your answer is correct.

The correct answer is:

\$

Question 24

Correct

Mark 1.00 out of 1.00

Choose the correct sequence of linear analysis:

- a. Read the characters from left to right.
- b. Stream of characters is taken from program file.
- c. Group sequence of characters having collective meaning as tokens.
- d. Identify the lexemes from the program file.

- ☐ 1. a-b-c-d
- ☒ 2. b-a-d-c
- ☐ 3. c-a-b-d
- ☐ 4. d-b-a-d



Your answer is correct.

The correct answer is:

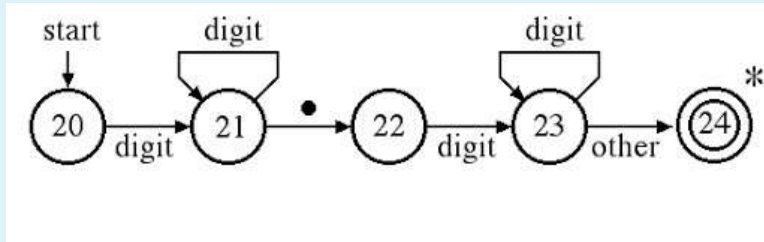
b-a-d-c

Question 25

Correct

Mark 1.00 out of 1.00

Identify the token recognized by the given transition diagram:



- ☒ 1. Floating point numbers
- ☐ 2. Unsigned integers
- ☐ 3. Signed integers
- ☐ 4. Integer numbers



Your answer is correct.

The correct answer is:

Floating point numbers

Question 26

Correct

Mark 1.00 out of 1.00

Which phase of compiler generates stream of tokens?

- ☐ 1. Syntax Phase
- ☒ 2. Lexical Phase
- ☐ 3. Code Optimizer
- ☐ 4. Code Generator



Your answer is correct.

The correct answer is:

Lexical Phase

Question 27

Correct

Mark 1.00 out of 1.00

The regular expression for a language containing strings which end with "abb" over an alphabet $\Sigma a, b$

- ☐ 1. $(a|b)^+abb$
- ☐ 2. abb
- ☒ 3. $(a|b)^*abb$
- ☐ 4. $(a|b)abb$



Your answer is correct.

The correct answer is:

$(a|b)^*abb$

Question 28

Correct

Mark 1.00 out of 1.00

Consider the following grammar:

$S \rightarrow iCtSeS$

$S \rightarrow a$

Compute $FIRST(S)$?

- ☐ 1. $\{a\}$
- ☐ 2. $\{i\}$
- ☒ 3. $\{i, a\}$
- ☐ 4. $\{i, e, a\}$



Your answer is correct.

The correct answer is:

$\{i, a\}$

Question 29

Correct

Mark 1.00 out of 1.00

For implementing a Top-down Parser successfully ,it is mandatory that grammars are resolved from

- ☐ 1. None of the given option
- ☐ 2. Left recursion
- ☐ 3. Left factoring
- ☒ 4. Both left recursion and left factoring



Your answer is correct.

The correct answer is:

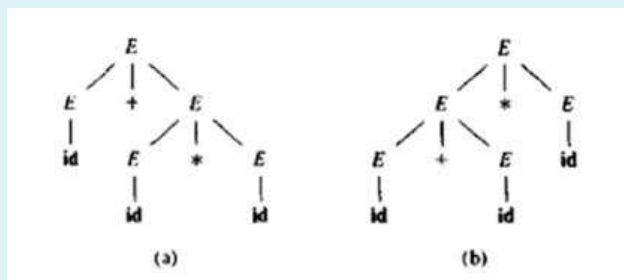
Both left recursion and left factoring

Question 30

Incorrect

Mark 0.00 out of 1.00

Choose the correct Parse tree.



- ☐ 1. Parse Tree (b)
- ☐ 2. Parse Tree (a)
- ☐ 3. Invalid Trees
- ☒ 4. Both Parse Tree (a) & Parse Tree (b)



Your answer is incorrect.

The correct answer is:

Parse Tree (a)

◀ CAE-1 Mock Test_Compiler Design(4.15 pm to 4.30 pm)-18-09-2020

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