Question No : 1 of 26 Marks: 1 (Budgeted Time 1 Min)

In compilers, linear analysis is also called ______ .

Answer (Please select your correct option)

- Lexical analysis
- Scanning
- Lexical analysis and scanning
- None of the given

Correct Answer Solved By Hadi
usmanraj20@gmail.com
03228043306

Made By: Waqar Siddhu

Question No : 2 of 26 Marks: 1 (Budgeted Time 1 Min)

Back End of two-pass compiler uses ______ algorithm.

Answer (Please select your correct option)

- O(n)
- O(n log n)
- NP Complete
- None of the Given

Correct Answer Solved By Hadi
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Made By: Waqar Siddhu

Question No : 3 of 26 Marks: 1 (Budgeted Time 1 Min)

The Back End of a compiler consist of _____ .

Answer (Please select your correct option)

- Instruction selection
- Register allocation
- Instruction scheduling
- All of the given

Correct Answer Solved By Hadi
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Made By: Waqar Siddhu

Question No : 4 of 26 Marks: 1 (Budgeted Time 1 Min)

In Back End module of compiler, optimal register allocation uses_________ .

Answer (Please select your correct option)

- O(log n)
- O(n log n)
- N P-Complete
- None of the given

Question No : 5 of 26 Marks: 1 (Budgeted Time 1 Min)

A lexeme is a sequence of characters in the source program that is matched by the pattern for a _______ .

Answer (Please select your correct option)

- Linker
- Token
- Control flow
- None of given

Question No : 6 of 26 Marks: 1 (Budgeted Time 1 Min)

_________ is a regular expression for the set of all strings over the alphabet {a} that has an even number of **a**'s.

Answer (Please select your correct option)

- aa*
- (aa)*
- aa*a
- a(aa)*

Question No : 7 of 26 Marks: 1 (Budgeted Time 1 Min)

What kind of abstract machine can recognize strings in a regular set?

Answer (Please select your correct option)

- DFA
- NFA
- PDA
- None of the given

Question No : 8 of 26 Marks: 1 (Budgeted Time 1 Min)

_______ algorithm is used in DFA minimization.

Answer (Please select your correct option)

- James's
- Robert's
- Hopcroft's
- None of given

Question No : 9 of 26 Marks: 1 (Budgeted Time 1 Min)

In DFA minimization, we construct one _____ for each group of states from the initial DFA.

Answer (Please select your correct option)

- State
- NFA
- PDA
- None of given

Question No : 10 of 26 Marks: 1 (Budgeted Time 1 Min)

In Flex specification file, different sections are separated by _______ .

Answer (Please select your correct option)

- %%
- &&
- ##
- None of given

Question No : 11 of 26 Marks: 1 (Budgeted Time 1 Min)

Recursive ____ parsing is done for LL(1) grammar.

Answer (Please select your correct option)

- Decent
- Ascent
- Forward
- None of the given

Question No : 12 of 26 Marks: 1 (Budgeted Time 1 Min)

Parser takes tokens from scanner and tries to generate _______ .

Answer (Please select your correct option)

- Binary Search tree
- Parse tree.
- Binary Search tree and Parse tree.
- None of the given

Question No : 13 of 26 Marks: 1 (Budgeted Time 1 Min)

_________ is an important component of semantic analysis.

Answer (Please select your correct option)

- Code checking
- type checking.
- Flush checking.
- None of the given

Question No : 14 of 26 Marks: 1 (Budgeted Time 1 Min)

In predictive parsing table, the rows represents _________ .

Answer (Please select your correct option)

- Terminals
- Both non-terminal and terminals
- Non-terminals
- None of the given

Question No : 15 of 26 Marks: 1 (Budgeted Time 1 Min)

In LL(1) parsing algorithm, ____ contains a sequence of grammar symbols.

Answer (Please select your correct option)

- Stack
- Link List
- Array
- None of the given.

Question No : 16 of 26 Marks: 1 (Budgeted Time 1 Min)

Consider the grammar

$A \rightarrow B\,C\,D$
$B \rightarrow h\,B \mid \varepsilon$
$C \rightarrow C\,g \mid g \mid C\,h \mid i$

Answer (Please select your correct option)

- h, g, i
- g
- h
- None of the given.

Correct Answer Solved By Hadi
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Question No : 17 of 26 Marks: 1 (Budgeted Time 1 Min)

Consider the grammar

$A \rightarrow B\,C\,D$
$B \rightarrow h\,B \mid \varepsilon$
$C \rightarrow C\,g \mid g \mid C\,h \mid i$

first of B is

Answer (Please select your correct option)

- h, i
- h, ε
- g
- None of the given.

Correct Answer Solved By Hadi
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Question No : 17 of 26 Marks: 1 (Budgeted Time 1 Min)

$A \rightarrow B\,C\,D$
$B \rightarrow h\,B \mid \varepsilon$
$C \rightarrow C\,g \mid g \mid C\,h \mid i$
$D \rightarrow A\,B \mid \varepsilon$

First of B is _______ .

Answer (Please select your correct option)

- h, i
- h, ε
- g
- None of the given.

Correct Answer Solved By Hadi
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Question No : 18 of 26 Marks: 1 (Budgeted Time 1 Min)

Consider the grammar

$A \rightarrow B\ C\ D$
$B \rightarrow h\ B \mid \varepsilon$
$C \rightarrow C\ g \mid g \mid C\ h \mid i$

Answer (Please select your correct option)

- h, g
- h
- h, g, i, ε
- None of the given

Correct Answer Solved By Hadi
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Question No : 18 of 26 Marks: 1 (Budgeted Time 1 Min)

$A \rightarrow B\ C\ D$
$B \rightarrow h\ B \mid \varepsilon$
$C \rightarrow C\ g \mid g \mid C\ h \mid i$
$D \rightarrow A\ B \mid \varepsilon$

First of D is ______ .

Answer (Please select your correct option)

- h, g
- h
- h, g, i, ε
- None of the given

Correct Answer Solved By Hadi
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Question No : 19 of 26 Marks: 1 (Budgeted Time 1 Min)

Consider the grammar

$A \rightarrow B\ C\ D$
$B \rightarrow h\ B \mid \varepsilon$
$C \rightarrow C\ g \mid g \mid C\ h \mid i$

Answer (Please select your correct option)

- h, $
- i
- g, $
- None of the given.

Question No : 19 of 26 Marks: 1 (Budgeted Time 1 Min)

$A \rightarrow B\ C\ D$
$B \rightarrow h\ B \mid \varepsilon$
$C \rightarrow C\ g \mid g \mid C\ h \mid i$
$D \rightarrow A\ B \mid \varepsilon$

Follow of D is ____ .

Answer (Please select your correct option)

- h, $
- i
- g, $
- None of the given.

Question No : 20 of 26 Marks: 1 (Budgeted Time 1 Min)

_______ parsers never shifts into an error state.

Answer (Please select your correct option)

- LS
- LT
- LR
- LP

Correct Answer Solved By Hadi
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Question No : 21 of 26 Marks: 2 (Budgeted Time 4 Min)

Write a regular expression for the language of all words that starts and ends with different letters.

Answer (Please click here to Add Answer)

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Question No : 22 of 26 Marks: 2 (Budgeted Time 4 Min)

How linker plays an important role with respect to compiler construction?

Answer (Please click here to Add Answer)

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Question No : 23 of 26 Marks: 3 (Budgeted Time 6 Min)

Can we call shift-reduce parsing as bottom up parsing? Justify your answer with reason.

Answer (Please click here to Add Answer)

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Question No : 24 of 26 Marks: 3 (Budgeted Time 6 Min)

Considering the following grammar, calculate the first set of non-terminals S, A and B.

$S \rightarrow AB$
$A \rightarrow a \mid \varepsilon$
$B \rightarrow b \mid \varepsilon$

Answer (Please click here to Add Answer)

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Question No : 25 of 26 Marks: 5 (Budgeted Time 10 Min)

Suppose that you are going to construct a compiler for a regular language and currently you are constructing a suitable predictive parsing from the grammar. If you have a production rule which is not clear to expand a non-terminal then how will you handle this situation and what will you name this procedure.

Answer (Please click here to Add Answer)

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Question No : 26 of 26 Marks: 5 (Budgeted Time 10 Min)

Considering string "ab", show that the following grammar is ambiguous using parse trees. The ε below is epsilon.

$S \rightarrow A B A B$

$A \rightarrow a A \mid \varepsilon$

$B \rightarrow b B \mid \varepsilon$

Answer (Please click here to Add Answer)

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