

Question No : 1 of 26

Marks: 1 (Budgeted Time 1 Min)

Typical compilation means programs written in high-level languages to low-level _____.

Answer (Please select your correct option)

- ☐ Object code
- ☐ Byted code
- ☐ Unicode
- ☐ Object Code and byte code

Correct Answer Solved By Hadi
usmanraj20@gmail.com
03228043306

Made By: Waqar Siddhu

Question No : 2 of 26

Marks: 1 (Budgeted Time 1 Min)

In compilation process, Hierarchical analysis is also called _____.

Answer (Please select your correct option)

- ☐ Parsing
- ☐ Syntax analysis.
- ☐ Parsing and Syntax analysis
- ☐ None of 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)

IR (Intermediate Representation) stores the value of its operand in _____.

Answer (Please select your correct option)

☐ Registers

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☐ Memory

☐ Hard disk

☐ None Of given

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Question No : 4 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 _____.

no any lexeme
word available in
book

Answer (Please select your correct option)

☐ Linker

☐ Token

☐ Control flow

☐ None of given

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Question No : 5 of 26

Marks: 1 (Budgeted Time 1 Min)

Parsers take ____ as input from lexical analyzer.

Answer (Please select your correct option)

☐ Linker

☐ Token

☐ Instruction

☐ None of the given

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Question No : 6 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

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☐ NFA

☐ PDA

☐ None of the given

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Question No : 7 of 26

Marks: 1 (Budgeted Time 1 Min)

In multi pass compiler, during the first pass it gathers information about _____.

Answer (Please select your correct option)

☐ Declaration

☐ Bindings

☐ Static information

☐ None of the given

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Question No : 8 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

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☐ NFA

☐ PDA

☐ None of given

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Question No : 9 of 26

Marks: 1 (Budgeted Time 1 Min)

_____ (Lexical Analyzer generator), is written in Java

page : 26 hanouts

Answer (Please select your correct option)

☐ Flex

☐ Jlex

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☐ Complex

☐ None of given

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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)

☐

%%

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☐

&&

☐

##

☐

None of given

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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

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☐ Ascent

☐ Forward

☐ None of the given

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Question No : 12 of 26

Marks: 1 (Budgeted Time 1 Min)

Alternative of the backtrack in parser is Look ahead symbol in _____.

Answer (Please select your correct option)

☐ Input

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☐ Output

☐ Input and Output

☐ None of the given.

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Question No : 13 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

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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

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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

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☐ Link List

☐ Array

☐ None of the given.

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Question No : 16 of 26

Marks: 1 (Budgeted Time 1 Min)

Consider the grammar

$$A \rightarrow B C D$$

$$B \rightarrow h B \mid s$$

$$C \rightarrow C g \mid g \mid C h \mid i$$

First if A is

Answer (Please select your correct option)

☐

h, g, i

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☐

g

☐

h

☐

None of the given.

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Question No : 17 of 26

Marks: 1 (Budgeted Time 1 Min)

Consider the grammar

$$A \rightarrow B C D$$

$$B \rightarrow h B \mid s$$

$$C \rightarrow C g \mid g \mid C h \mid i$$

if first of C is

Answer (Please select your correct option)

☐ g, i

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☐ g

☐ h, i

☐ None of the given.

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Question No : 18 of 26

Marks: 1 (Budgeted Time 1 Min)

Bottom-up parsing uses only _____ kinds of actions.

Answer (Please select your correct option)

☐

Two

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☐

Three

☐

Four

☐

Five

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Question No : 19 of 26

Marks: 1 (Budgeted Time 1 Min)

The shift action _____ a terminal on the stack.

Answer (Please select your correct option)

☐ Pushes

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☐ Pops

☐ Both push and pops

☐ None of the given

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Question No : 20 of 26

Marks: 1 (Budgeted Time 1 Min)

Reduce action _____ zero or more symbols from the stack

Answer (Please select your correct option)

☐ Pushes

☐ Pops

☐ Both push and pops

☐ None of the given

Correct Answer Solved By Hadi
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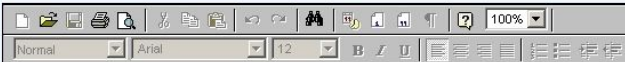
Question No : 21 of 26

Marks: 2 (Budgeted Time 4 Min)

Consider the following C++ function as an input to the Parser.

```
1. int* foo(int i, int j))  
2. {  
3.   for(k=0; i j; )  
4.   fi(i > j)
```

Answer ([Please click here to Add Answer](#))



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Question No : 21 of 26

Marks: 2 (Budgeted Time 4 Min)

```
4. fi(i > j)
5. return j;
6. }
```

What is the syntactic error at line 4? How will Parser recognize this syntactic error?

Answer ([Please click here to Add Answer](#))

Normal Arial 12 B I U

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Question No : 22 of 26

Marks: 2 (Budgeted Time 4 Min)

What is upper frontier with respect to discovering handles in shift-reduce parsing?

Answer ([Please click here to Add Answer](#))

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Question No : 23 of 26

Marks: 3 (Budgeted Time 6 Min)

Consider the following C++ function as an input to the Parser.

```
int* foo(int i, int j)
{
    for(k=0; i < j; j++)
        if(i < j-2)
```

Answer ([Please click here to Add Answer](#))

Rich text editor toolbar showing icons for undo, redo, bold, italic, underline, link, unlink, list, and other formatting options. The font is set to Arial, size 12, and the zoom level is 100%.

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Question No : 23 of 26

Marks: 3 (Budgeted Time 6 Min)

```
if(i < j-2)
sum = sum+i
return sum;
}
```

What will be the semantic errors reported by the Parser in the above code?

Answer ([Please click here to Add Answer](#))

Normal Arial 12 B I U

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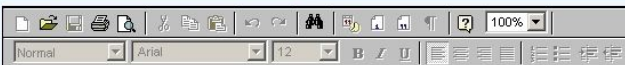
Question No : 24 of 26

Marks: 3 (Budgeted Time 6 Min)

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

$S \rightarrow AB$
 $A \rightarrow a | \epsilon$
 $B \rightarrow b | \epsilon$

Answer ([Please click here to Add Answer](#))



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Question No : 25 of 26

Marks: 5 (Budgeted Time 10 Min)

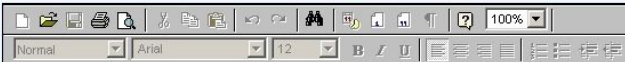
Consider the following grammar,

Statement \rightarrow if expression then statement else statement

Statement \rightarrow if expression then statement

You are required to provide an alternate production(s) so that it may become free from the backtracking.

Answer ([Please click here to Add Answer](#))



Made By: Waqar Siddhu

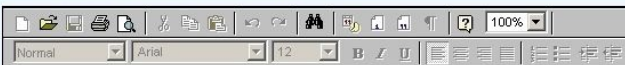
Question No : 26 of 26

Marks: 5 (Budgeted Time 10 Min)

Considering the following grammar, reduce the string "abbcbcd" using Bottom-up parsing

$S \rightarrow aABe$
 $A \rightarrow Abc \mid b$
 $B \rightarrow d$

Answer ([Please click here to Add Answer](#))



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