

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 \_\_\_\_\_, certain checks are performed to ensure that components of a program fit together meaningfully.

Answer ( Please select your correct option )

☐ Linear analysis

☐ Hierarchical analysis

☐ Semantic analysis

☐ None of given

Correct Answer Solved By Hadi  
usmanraj20@gmail.com  
03228043306

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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

Correct Answer Solved By Hadi  
usmanraj20@gmail.com  
03228043306

☐ Register allocation

☐ Instruction scheduling

☐ All of the given

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Question No : 4 of 26

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ read the input character and produce sequence of tokens as output.

Answer ( Please select your correct option )

☐ Lexical analyzer

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usmanraj20@gmail.com  
03228043306

☐ Parser

☐ Symbol table

☐ None of the given

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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

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03228043306

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Question No : 6 of 26

Marks: 1 (Budgeted Time 1 Min)

The regular expression \_\_\_\_\_ denotes, the set of all strings of a's and b's of length two

Book

Answer ( Please select your correct option )

☐ a\*

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usmauraj20@gmail.com  
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☐ (a\*b\*)\*

☐ (a\*b\*)\*

☐ (a|b)(a|b)

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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

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usmanraj20@gmail.com  
03228043306

☐

NFA

☐

PDA

☐

None of the given

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Question No : 8 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

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usmanraj20@gmail.com  
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☐

Bindings

☐

Static information

☐

None of the given

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Question No : 9 of 26

Marks: 1 (Budgeted Time 1 Min)

\_\_\_\_\_ (Lexical Analyzer generator), is written in Java

Answer ( Please select your correct option )

☐ Flex

☐ Jlex

☐ Complex

☐ None of given

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usmanraj20@gmail.com  
03228043306

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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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usmanraj20@gmail.com  
03228043306

☐ &&

☐ ##

☐ 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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usmanraj20@gmail.com  
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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)

\_\_\_\_\_ of a two-pass compiler is consists of Instruction selection, Register allocation and Instruction scheduling.

Answer ( Please select your correct option )

☐

Backend

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usmanraj20@gmail.com  
03228043306

☐

Frontend

☐

Start

☐

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.

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usmanraj20@gmail.com  
03228043306

☐ 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)

\_\_\_\_\_ is evaluated to yield a value.

Answer ( Please select your correct option )

☐ Command

☐ Expression

☐ Declaration

☐ None of the given

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usmanraj20@gmail.com  
03228043306

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Question No : 15 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

Correct Answer Solved By Hadi  
usmanraj20@gmail.com  
03228043306

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Question No : 16 of 26

Marks: 1 (Budgeted Time 1 Min)

Consider the grammar

$$A \rightarrow B C D$$

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

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

Answer ( Please select your correct option )

☐ h, i

☐ h, s

☐ g

☐ None of the given.

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usmanraj20@gmail.com  
03228043306

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Question No : 17 of 26

Marks: 1 (Budgeted Time 1 Min)

Consider the grammar

$$A \rightarrow B C D$$

$$B \rightarrow h B \mid \varepsilon$$

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

Answer ( Please select your correct option )

☐ h, \$

☐ i

☐ g, \$

☐ None of the given.

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Question No : 17 of 26

Marks: 1 (Budgeted Time 1 Min)

$A \rightarrow B C D$   
 $B \rightarrow h B | s$   
 $C \rightarrow C g | g | C h | i$   
 $D \rightarrow A B | s$

Follow of D is \_\_\_\_\_.

Answer ( Please select your correct option )

☐ h, \$

☐ i

☐ g, \$

☐ None of the given.

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Question No : 18 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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usmanraj20@gmail.com  
03228043306

☐

Pops

☐

Both push and pops

☐

None of the given

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Question No : 19 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  
usmanraja20@gmail.com  
03228043306

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Question No : 20 of 26

Marks: 1 (Budgeted Time 1 Min)

Bottom-up parsers handle a \_\_\_\_\_ class of grammars.

Answer ( Please select your correct option )

☐

Large

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usmanraj20@gmail.com  
03228043306

☐

Small

☐

Medium

☐

None of the given.

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Question No : 21 of 26

Marks: 2 (Budgeted Time 4 Min)

What is the role of parser generator with respect to compilers?

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

Normal Arial 12 B I U

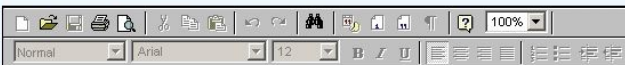
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Question No : 22 of 26

Marks: 2 (Budgeted Time 4 Min)

Considering that the bottom-up parsing uses only two kinds of actions with stack to hold the content of the left string, which action pushes a terminal on the stack?

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



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Question No : 23 of 26

Marks: 3 (Budgeted Time 6 Min)

How recursive descent parser is implemented using any Object Oriented language?

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

Normal Arial 12 B I U

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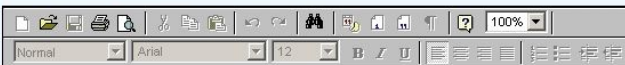
Question No : 24 of 26

Marks: 3 (Budgeted Time 6 Min)

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

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

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



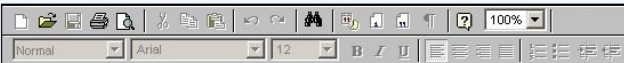
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Question No : 25 of 26

Marks: 5 (Budgeted Time 10 Min)

Suppose that you wrote a grammar for recognizing a regular expression and you found that this grammar is insufficient to evaluate arithmetic expression. If there is no notion of precedence order or implied order of evaluation then how will you change this grammar to evaluate the expression in correct order?

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



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Question No : 26 of 26

Marks: 5 (Budgeted Time 10 Min)

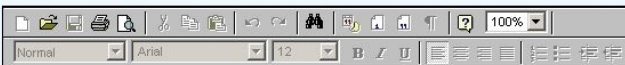
Considering the following grammar, reduce the string "abbcbcd" using Bottom-up parsing

$S \rightarrow aABe$

$A \rightarrow Abc \mid b$

$B \rightarrow d$

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



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