

## CS606-Compile Construction

Solved MCQS for Midterms papers

Solved by JUNAID MALIK and Team



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## Question No 1

LL(1) parsing is called \_\_\_\_\_ parsing.

- **Predictive**
- Non-predictive
- Post-predictive
- Post determine

## Question No 2

One kind of predictive parser is the \_\_\_\_\_.

- **Recursive descent parses**
- Bottom-up parser
- Natural parser
- Multilingual parser

## Question No 3

Front-end of a two pass compiler consists of \_\_\_\_\_.

- Code optimizer
- **Scanner**
- Parser
- Assembler

## Question No 4

The algorithm for \_\_\_\_\_ conversion is called Thompson's Construction.

- DFA to RE
- **RE to DFA**
- RE to NFA
- CFG to NFA

## Question No 5

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\_\_\_\_\_ convert the relocatable machine into absolute machine code by linking library and relocatable object files.

- Assembler
- **Loader/link editor**
- Compiler
- Preprocessor

## Question No 6

The \_\_\_\_\_ parser uses a stack to hold the frontier.

- Top-down
- **Bottom-up**
- Predicative
- LL(1) parsers

## Question No 7

\_\_\_\_\_ is the process of discovering a derivation for some sentence of a language.

- Compiling
- Scanning
- **Parsing**
- Interpretation

## Question No 8

A \_\_\_\_\_ accepts a string if we can follow transitions labeled with characters in the string from start state to some accepting state.

- **Finite automata.....(For More Visit VUStudents.pk)**
- Regular expression
- Regular language
- Acceptor

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## Question No 9

The general idea behind NFA-to-DFA construction is that each \_\_\_\_\_ state corresponds to a set of \_\_\_\_\_ states.

- **DFA, NFA**
- NFA, DFA
- NFA, FA
- CFG, NFA

## Question No 10

Optimal registers allocation is \_\_\_\_\_ problem.

- NP-hard
- **NP-complete**
- Polynomial complete
- Multinomial complete

## Question No 11

Majority of the algorithms employed in the back-end are

\_\_\_\_\_.

- Polynomial time
- NP-Complete
- **Np**
- None of the given

## Question No 12

In predictive parsing table, the rows are \_\_\_\_\_.

- **Non-terminals**
- Terminals
- Both non-terminals and terminals
- Neither non-terminals nor terminals

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## Question No 13

Predictive parser accepts \_\_\_\_\_ grammars.

- LL(n+)
- LL(j-)
- **LL(k)**
- LL(K++)

## Question No 14

\_\_\_\_\_ and \_\_\_\_\_ actions are used by bottom-up parsing.

- Break and reduce
- Shift and break
- **Shift and reduce**
- Shift and expand

## Question No 15

If the right-hand side of a production has k symbols, it has \_\_\_\_\_ placeholder positions.

- k
- **k+1**
- k+2
- k+3

## Question No 16

Lexical analyzer function is not \_\_\_\_\_.

- Removing white space
- Removing constants, identifies and keywords
- **Removing comments**
- Register allocation

## Question No 17

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Reduce action \_\_\_\_\_ zero or more symbols from the stack.

- Pushes
- Pops
- **Both pushes and pops**
- Adds

## Question No 18

Parser determines if the input is \_\_\_\_\_ well formed.

- Programmatically
- Logically
- **Syntactically**
- Mechanically

## Question No 19

Grammar with the \_\_\_\_\_ property is called predictive grammar.

- LL(3)
- LL(2)
- **LL(1)**
- LL(n+)

## Question No 20

The executable code typically runs as a \_\_\_\_\_ in an Operating System Environment.

- **Process**
- Threads
- Routine
- Function

## Question No 21

In a transition table cells of the table contain the \_\_\_\_\_ state.

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- Reject State
- **Next State**
- Previous State
- Same State

## **Question No 22**

In parser the two LL stand(s) for \_\_\_\_\_.

- Left-to-right scan of input
- Left-most derivation
- **Left-to-right scan of input and left-most derivation**
- Right to left scan of input

## **Question No 23**

The \_\_\_\_\_ builds intermediate Representation (IR) for source program.

- Scanner
- **Parser**
- Compiler
- Loader

## **Question No 24**

Left factoring of a grammar is done to save the parser from \_\_\_\_\_.

- Location tracking
- **Front tracking**
- Back tracking
- Random tracking

## **Question No 25**

In Flex specification file different sections are separated by \_\_\_\_\_.

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- %%
- &&
- ##
- \\

## Question No 26

Left factoring of a grammar is done to save the parser from \_\_\_\_\_.

- Location tracking
- Front tracking
- **Back tracking**
- Random tracking

## Question No 27

Lexer and scanner are \_\_\_\_\_ phase of compiler.

- **Same**
- Different
- Backend
- Middle end

## Question No 28

Back End of two-pass compiler uses \_\_\_\_\_ algorithm.

- $O(n)$
- $(n \log n)$
- **NP Complete**
- $O(n^2)$

## Question No 29

The \_\_\_\_\_ contains a lot of unneeded information.

- **Parse tree**

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- Abstract syntax tree
- Complete tree
- Abstract syntax tree

## Question No 30

A \_\_\_\_\_ start at the leaves and grows toward root of the parse tree.

- Top-down parser
- **Bottom-up parser**
- Vertical parser
- Horizontal parser

## Question No 31

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

- **Object code PG # 06**
- Byted code
- Unicode
- Object Code and byte code

## Question No 32

In compilation process, Hierarchical analysis is also called \_\_\_\_\_.

- Parsing
- **Syntax**
- Parsing and Syntax analysis o
- None of given

## Question No 33

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

\_\_\_\_\_.

- **Registers PG # 10**

- Memory
- Hard disk
- None Of given

## Question No 34

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

- Linker
- **Token**
- Control flow
- None of given

## Question No 35

Parsers take \_\_\_\_\_ as Input from lexical analyzer.

- Linker
- **Token**
- Instructions
- None of the given

## Question No 36

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

- **DFA**
- NFA
- PDA
- None of the given

## Question No 37

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

\_\_\_\_\_.

- **Declaration**
- Bindings
- Static information
- None of the given

## Question No 38

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

- **State PG # 30**
- NFA
- PDA
- None of given

## Question No 39

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

- Flex
- **Jlex PG # 31**
- Complex
- None of given

## Question No 40

Recursive \_\_\_\_\_ parsing is done for LL(I) grammar.

- **Decent**
- Ascent
- Forward
- None of the given

## Question No 41

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Alternative of the backtrack in parser is Look ahead symbol in \_\_\_\_\_.

- **Input**
- Output
- Input and Output
- None of the given

## Question No 42

Parser takes tokens from scanner and tries to generate \_\_\_\_\_.

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

## Question No 43

In predictive parsing table, the rows represents \_\_\_\_\_.

- Terminals
- Both non-terminal and terminals
- **Non-terminals PG # 62**
- None of the given

## Question No 44

In LL(I) parsing algorithm, \_\_\_\_\_ contains a sequence of grammar symbols.

- **Stack PG # 62**
- Link List
- Array
- None of the given

## Question No 45

Consider the grammar

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A  $\rightarrow$  B C D

B  $\rightarrow$  h B |  $\epsilon$

C  $\rightarrow$  C g | g | C h | i

D  $\rightarrow$  AB |  $\epsilon$

First of A is \_\_\_\_\_.

• h, g, i

- g
- h
- None of the given

## Question No 46

Consider the grammar

A  $\rightarrow$  B C D

B  $\rightarrow$  h B |  $\epsilon$

C  $\rightarrow$  C g | g | C h | i

D  $\rightarrow$  AB |  $\epsilon$

First of C is \_\_\_\_\_.

• g, i

- g
- h, i
- None of the given

## Question No 47

Bottom-up parsing uses only \_\_\_\_\_ kinds of actions.

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- **Two PG # 71**

- Three
- Four
- Five

## Question No 48

The shift action \_\_\_\_\_ a terminal on the stack.

- **Pushes PG # 73**

- Pops
- Both push and pops
- None of the given

## Question No 49

Reduce \_\_\_\_\_ action zero or more symbols from the stack.

- Pushes

- **Pops PG # 73**

- Both push and pops
- None of the given

## Question No 50

In compilers, linear analysis is also called \_\_\_\_\_.

- Lexical analysis
- Scanning

- **Lexical analysis and scanning**

- None of the given

## Question No 51

Back End of two-pass compiler uses \_\_\_\_\_ algorithm.

- $O(n)$
- $O(n \log n)$

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- **NP Complete**

- None of the Given

## Question No 52

The Back End of a compiler consist of \_\_\_\_\_.

- **Instruction selection**

- Register allocation
- Instruction scheduling
- All of the given

## Question No 53

In Back End module of compiler, optimal register allocation uses \_\_\_\_\_.

- $O(\log n)$
- $O(n \log n)$
- **NP-Complete**
- None of the given

## Question No 54

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

- **$(aa)^*$**
- $(aa)^*a$
- $aa^*a$
- $a^*(aa)$

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## Question No 55

\_\_\_\_\_ algorithm is used in DFA minimization.

- James's
- Robert's
- **Hopcroft's PG # 25**
- None of given

## Question No 56

\_\_\_\_\_ is an important component of semantic analysis.

- Code checking
- **Type checking PG # 39**
- Flush checking
- None of the given

## Question No 57

Consider the grammar

$A \rightarrow B C D$

$B \rightarrow h B | \epsilon$

$C \rightarrow C g | g | C h | i$

First of B is \_\_\_\_\_.

- h, i
- **h,  $\epsilon$**
- g
- None of the given

## Question No 58

Consider the grammar,

$A \rightarrow B C D$

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B → h B | £

C → C g | g | C h | i

D → AB | £

First of D is \_\_\_\_\_.

- h, g
- h
- **h, g, i, £**
- None of the given

## Question No 59

\_\_\_\_\_ Parsers never shifts into an error state.

- LS
- LT
- **LR**
- LP

## Question No 60

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

- Linear analysis
- Hierarchical analysis
- **Semantic analysis**
- None of given

## Question No 61

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

- **Lexical analyzer**
- Parser

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- Symbol table
- None of the given

## Question No 62

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

- $a^*$
- $(a^* | b^*)^*$
- $(a^*b^*)^*$
- **$(a|b)(a|b)$**

## Question No 63

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

- **Backend PG # 9**
- Frontend
- Start
- None of the Given

## Question No 64

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

- Command
- **Expression**
- Declaration
- None of the given

## Question No 65

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

- **Large PG # 49**

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- Small
- Medium
- None of the given

## Question No 66

The input specification file to flax consists of----- section.

- 1
- 2
- **3**
- 4

## Question No 67

Lexer and scanner are two different phases of compiler.

- True
- **False**

## Question No 68

In compiler linear analysis is also called.

- Lexical analysis
- Scanning
- **Both lexical analysis and scanning**
- None of the given

## Question No 69

Which of the following statements is NOT true?

- The language accepted by finite automata are the languages denoted by regular expression.
- For every DFA there is a regular expression denoting its languages.
- **For a regular expression  $r$ , there does not exist NFA with  $L(r)$  any transit that accept.**

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- None of the given.

## Question No 70

Top – down parsing expands a ----- from the start symbol to the leaves.

- Parse tree
- Abstract Syntax tree
- Parse tree
- **All of the given**

## Question No 71

A top-down purser starts with the ----- of the parse tree.

- **Root**
- Leaf
- Middle
- None of the given

## Question No 72

Can a DFA simulate NFA?

- NO
- **YES**
- Sometimes
- Depends on NFA

## Question No 73

Bottom- up parsing is also called-----.

- **LR parsing**
- LT parsing

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- LS parsing
- SS parsing

## Question No 74

The ----- is optimized for hardware it is to run on.

- C++ code
- C code
- **Assembly code**
- None of the given

## Question No 75

Abstract syntax tree summarizes ----- without the details of derivation.

- Theory
- **Grammatical structure**
- Data
- None of the give

## Question No 76

LR parsing----- a string to the start symbol by inverting production.

- **Reduces**
- Shifts
- Adds
- None of the given

## Question No 77

Alternative to backtrack in top- down parser is -----.

- Context free grammar
- Trees
- **Look ahead**
- None of the given

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## Question No 78

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

- **Object code**
- Byte Code
- Unicode
- Both object code and Byte code

## Question No 79

The ----- Checks the stream of work (token) and their parts of speech for grammatical correctness.

- Parser
- **Scanner**
- **Compiler**
- None of the given

## Question No 80

A grammar must be ----- before use for predicative parsing.

- Right factored
- **Left factored**
- Factored
- None of the given

## Question No 80

Parser does not distinguish between valid and invalid sequences of token.

- True
- **False**

## Question No 81

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In Compilation process Hierarchical analysis is also called:

- Parsing
- **Syntax analysis**
- Both parsing and Syntax analysis
- None of the given

## **Question No 82**

The pair <role, word> is given the name-----.

- Word
- **Token**
- Syntax
- None of the given

## **Question No 83**

The back end maps intermediate Representation (IR) into target-----.

- Object code
- Machine code
- **Source code**
- Linker

## **Question No 84**

----- is evaluated to yield a value.

- Command
- **Expression**
- Declaration
- Declaration and Command

## **Question No 85**

Front- end of a two pass compiler is consists of scanner.

- **TRUE**

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- FALSE

## Question No 86

The ----- returns a sequence of mating token at output (or an error) and it always return the longest matching token.

- Scanner
- Lexer
- **Lexical analyzer**
- All of the given

## Question No 87

----- avoid hardware stalls and interlocks.

- Register allocation
- **Instruction scheduling**
- Instruction selection
- None of given

## Question No 88

LR parsers can handle \_\_\_\_\_ grammars.

- **Left-recursive** (Page 63)
- file-recursive
- End-recursive
- Start-recursive

## Question No 89

\_\_\_\_\_ convert the relocatable machine code into absolute machine code by linking library and relocatable object files.

- Assembler
- **Loader/link-editor**
- Compiler

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- Preprocessor

## Question No 90

Follow of C is \_\_\_\_\_ .

- **g, h, i, \$**
- g, h, \$
- h, i, \$
- h, g, \$

## Question No 91

Consider the grammar  $A \rightarrow B C D$

$B \rightarrow h B \mid \epsilon$

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

$D \rightarrow A B \mid \epsilon$

Follow of B is \_\_\_\_\_ .

- **h**
- g, h, i, \$
- g, i
- g

## Question No 92

An important component of semantic analysis is \_\_\_\_\_ .

- Code checking
- **type checking (Page 33)**
- flush checking
- None of the given

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## Question No 93

In PASCAL \_\_\_\_\_ represent the inequality test.

- :=
- =
- $\lt$
- None of the given

## Question No 94

Lexical Analyzer generator \_\_\_\_\_ is written in Java.

- Flex
- **Jlex (Page 26)**
- Complex
- None of given

## Question No 95

\_\_\_\_\_ avoid hardware stalls and interlocks.

- Register allocation
- **Instruction scheduling (Page 121)**
- Instruction selection
- None of given

## Question No 96

Consider the following grammar,

$A \rightarrow B C D$

$B \rightarrow h B \mid \epsilon$

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

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D  $\rightarrow$  A B | epsilon

First of A is \_\_\_\_\_.

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

## Question No 97

Recursive \_\_\_\_\_ parsing is done for LL(1) grammar.

- **Descent (Page 47)**
- Ascent
- Forward
- Backward

## Question No 98

One of the core tasks of compiler is to generate fast and compact executable code.

- **True**
- False

## Question No 99

Left factoring of a grammar is done to save the parser from back tracking.

- **True**
- False

## Question No 100

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Responsibility of \_\_\_\_\_ is to produce fast and compact code.

- **Instruction selection (Page 9)**
- Register allocation
- Instruction scheduling
- None of given

## Question No 101

\_\_\_\_\_ algorithm is used in DFA minimization.

- James's
- Robert's
- **Hopcroft's (Page 25)**
- None of given

## Question No 102

Compilers are sometimes classified as.

- Single pass
- Multi pass
- Load and go
- **All of the given [click here for detail](#)**

## Question No 103

In multi pass compiler during the first pass it gathers information about \_\_\_\_\_.

- **Declaration [click here for detail](#)**
- Bindings
- Static information
- None of the given

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## Question No 104

Flex is an automated tool that is used to get the minimized DFA (scanner).

- True
- **False (Page 26)**

## Question No 105

In compilation process Hierarchical analysis is also called

- Parsing
- Syntax analysis
- **Both Parsing and Syntax analysis [click here 4 detail](#)**
- None of given

## Question No 106

For each language to make LL(1) grammar, we take two steps, 1st is removing left recurrence and 2nd is applying left factoring in sequence.

- **True**
- False

## Question No 107

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

- Command
- **Expression**
- Declaration
- Declaration and Command

## Question No 108

Optimal registers allocation is an NP-hard problem.

- True
- **False**

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## **Question No 109**

Parser takes tokens from scanner and tries to generate \_\_\_\_\_ .

- Binary Search tree
- **Parse tree**
- Syntax trace
- None of the given

## **Question No 110**

Front end of two pass compiler takes \_\_\_\_\_ as input.

- **Source code (Page 5)**
- Intermediate Representation (IR)
- Machine Code
- None of the Given

## **Question No 111**

In in we construct one \_\_\_\_\_ for each group of states from the initial DFA.

- **State (Page 25)**
- NFA
- PDA
- None of given

## **Question No 112**

In Three-pass compiler \_\_\_\_\_ is used for code improvement or optimization.

- Front End
- **Middle End (Page 10)**
- Back End
- Both Front end and Back end

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## Question No 113

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

- **Back end (Page 10)**
- Front end
- Start
- None of given

## Question No 114

NFA is easy to implement as compared to DFA.

- True
- **False (Page 19)**

## Question No 115

We can get an LL(1) grammar by \_\_\_\_\_ .

- Removing left recurrence
- Applying left factoring
- **Removing left recurrence and Applying left factoring**
- None of the given

## Question No 116

Parser always gives a tree like structure as output

- True
- False

## Question No 117

In Back End module of compiler, optimal register allocation uses \_\_\_\_\_ .

- $O(\log n)$

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- $O(n \log n)$
- **N P-Complete (Page 10)**
- None of the given

## Question No 118

Lexer and scanner are two different phases of compiler  
Select correct option:

- True
- **False**

## Question No 119

In Flex specification file different sections are separated by

\_\_\_\_\_.

- **%% (Page 26)**
- &&
- ##
- \\

## Question No 120

\_\_\_\_\_ phase which supports macro substitution and conditional compilation.

- Semantic
- Syntax
- **Preprocessing [Click here for detail](#)**
- None of give

## Question No 121

\_\_\_\_\_ tree in which each node represents an operator and children of the node represent the operands.

- **Abstract syntax (Page 100)**
- Concrete syntax
- Parse

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- None of the given

## Question No 122

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

- Linear analysis
- Hierarchical analysis
- **Semantic analysis (Page 33)**
- None of given

## Question No 123

In compiler linear analysis is also called.

Select correct option:

- Lexical analysis
- Scanning
- **Both lexical analysis and scanning [click here for details](#)**
- None of the given

## Question No 124

Which of the following statement is true about Two pass compiler.

- Front End depends upon Back End
- **Back End depends upon Frond End (Page 5)**
- Both are independent of each other
- None of the given

## Question No 125

Ambiguity can easily be handled by Top-down Parser

- **[True click here for detail](#)**
- False

## Question No 126

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Alternative of the backtrack in parser is Look ahead symbol in \_\_\_\_\_ .

- **Input (Page 46)**
- Output
- Input and Output
- None of the given

## Question No 127

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

- Object code
- Byte code
- Unicode
- **Both Object Code and byte code (Page 2)**

## Question No 128

LR parsing \_\_\_\_\_ a string to the start symbol by inverting.

- **Reduces (Page 63)**
- Shifts
- Adds
- None of the given

## Question No 129

In parser the two LL stand(s) for \_\_\_\_\_ .

- Left-to-right scan of input
- left-most derivation
- **All of the given [click here for detail](#)**
- None of given

## Question No 130

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

- **Large (Page 63)**

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- Small
- Medium
- None of the given

## Question No 131

Compilers are some times classified as.

- Single pass
- Multi pass
- Load and go
- **All of the given**

## Question No 132

The Back End of a compiler consist of \_\_\_\_\_ .

- **Instruction selection (Page 10)**
- Register allocation
- Instruction scheduling
- All of the given

## Question No 133

Can a DFA simulate NFA?

- **Yes click here for detail**
- No
- Sometimes
- Depend upon nfa

## Question No 134

Which of the statement is true about Regular Languages?

- Regular Languages are the most popular for specifying tokens.
- Regular Languages are based on simple and useful theory.
- Regular Languages are easy to understand.

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- **All of the given (Page 15)**

## Question no 135

In a transition table cells of the table contain the \_\_\_\_\_ state.

- Reject state
- **Next state (Page 18)**
- Previous state
- None of the given

## Question No 136

The transition graph for an NFA that recognizes the language  $(a | b)^*abb$  will have following set of states.

- $\{0\}$
- $\{0,1\}$
- $\{0,1,2\}$
- **$\{0,1,2,3\}$  (page 23) Not sure**

## Question No 137

Functions of Lexical analyzer are?

- Removing white space
- Removing constants, identifiers and keywords
- Removing comments
- **All of the given [click here for detail](#)**

## Question No 138

\_\_\_\_\_ method is known as Subset Construction Method.

- **NFA TO DFA (Page 19)**
- DFA
- DFA maximization
- None of given

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## **Question No 139**

Which one is NOT the Role of Run-Time System

- garbage collection
- memory management
- run time error checking
- **none of given (Page 11)**

## **Question No 140**

Compiler \_\_\_\_\_ information from one representation to another

- modified
- **translate (Page 2)**
- execute
- extract

## **Question No 141**

Front-end of a two pass compiler is consists of Scanner.

- True
- **False (Page 12)**

## **Question No 142**

Bottom-up parsing uses only \_\_\_\_\_ kinds of actions.

- **Two (Page 64)**
- Three
- Four
- Five

## **Question No 143**

Bottom-up parsing is also called \_\_\_\_\_ .

- **LR parsing (Page 63)**
- LT parsing
- LS parsing

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- SS parsing

## Question No 144

Backtracking is a costly operation which is caused due to Left Recursion.

- True
- **False**

## Question No 145

A non-recursive predictive parser is also called \_\_\_\_\_.

- **table-driven parser (Page 54)**
- Abstract parser
- Conceptual parser
- None of the given

## Question No 146

AST summarizes the grammatical structure with the details of derivations.

- True
- **False (Page 8)**

## Question No 147

Backtrack is term associated with Top-down parsing.

- **True (Page 42)**
- False

## Question # 2 of 10 (Total Marks: 1) Select correct option:

Which of the following statement/s is/are true about Deterministic Finite Automata?

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**Question # 3 of 10 (Total Marks: 1) Select correct option:**

The lexical analyzer partition input string into substrings, called

words

**Question # 4 of 10 (Total Marks: 1) Select correct option:**

“” “ab” “abab”... is a string of the language denoted by following Regular Expression:

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