

CS606-Compiler Construction Solved MCQ(S) From FinalTerm Papers BY Arslan

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Final-Term Papers Solved MCQS with Reference

- 1. _____ convert the relocatable machine code into absolute machine code by linking library and relocatable object files.
 - > Assembler
 - Loader/link-editor
 - > Compiler
 - Preprocessor
- 2. Parsers take _____ as input from lexical analyzer.
 - Linker
 - Token
 - Instruction
 - \triangleright None of the given

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3. 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)The regular expression (a|b)(a|b) denotes $\{aa, ab, ba, bb\}$, the set of all strings of a's and b's of length two. Another regular expression for this same set is aa | ab | ba | bb. _____ is a regular expression for the set of all strings over the alphabet {a} that has an even number of a's. 4 aa* $(aa)^*$ aa*a a(aa)* 5. Phase supports macro substitution and conditional compilation. Semantic **Syntax** Preprocessing **Click Here For More Detail** None of given

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

Stack

PG # 62

- Link List
- Array
- \triangleright None of the given.
- 7. Consider the grammar



PG # 54

10. _____ is elaborated to produce bindings.

Declaration

Click Here For More Detail

Expression

 \geq

- Command
- None of the given
- 11. A lexical analyzer generated by _____ is essentially a FSA.
 - > Dex
 - > Mex
 - > Fex
 - Lex
- 12. A lexical analyzer generated by lex is essentially a PDA (Push Down Automaton).
 - ➢ True
 - > False

13. The actions (shift, reduce) in a SLR(1) parser depend on a look ahead symbol (_____).

- Current input token
- Next Input Token
- Previous output Token
- Previous Input Token.

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14. The following grammar contains a _____ conflict. S $\rightarrow A \mid xb$

Shift-Reduce

- First-Reduce
- Shift-First
- Reduce-Reduce

15. S \rightarrow A | xb

 $A \rightarrow aAb \mid x$

This grammar contains a _____ conflict.

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Shift-Reduce

- First-Reduce
- Shift-First
- Reduce-Reduce

16. Considering the following grammar:

- $S \rightarrow AB$ $A \rightarrow \notin | aA$ $B \rightarrow b | bB$
- ▶ 1
- ⊳ <mark>2</mark>
- > 3
- ≥ 4

17. Simple code generation considers one AST node at the time. When the target is a *stack* machine, the code can be generated in one ______ traversal of the AST.

Depth-first

- Breadth-first
- First-first
- Shift-Reduce
- 18. _____ is a register allocation technique that *always* finds the minimal number of registers needed for a procedure.
 - Dangling reference
 - Graph coloring
 - Left Factoring
 - Right Recursion
- 19. Graph coloring is a register allocation technique that operates at *individual* basic blocks.
 - ➤ True
 - ➢ False
- 20. **Graph coloring** is a register allocation heuristic that *usually* finds the minimal number of registers needed for a procedure.
 - True
 - ➢ False

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```
21. S \rightarrow a S | Sa | c
```

This grammar is ambiguous.

True

- ➢ False
- 22. When generating code at the basic block level, the dependency graph must be converted to target code. By identifying ______, instruction selection and instruction ordering can be performed efficiently in a single pass.
 - Ladder sequences
 - Physical sequences
 - Logical sequences
 - Token sequences
- 23. _____ can be considered a small compiler since it transforms a source language (assembly) into a less abstract target language (binary object code)
 - > Parser
 - Assembler
 - Lexical analyzer
 - Scanner
- 24. When memory allocator operates on chunks which include some administrative part and a block of user data. The administrative part includes ______ flag for marking the chunk as free or in-use.
 - One
 - ➤ Two
 - ➢ Three
 - > Four

25. A parser transforms a stream of tokens into an _

- > AST
- ≻ IST
- ≻ EST
- > ATS

26. The parser generator yacc can handle _____ grammars

- ► LL(1)
- ≻ LT(1)
- ≻ LS(1)
- ≻ LF(1)
- 27. The parser generator **yacc** can handle LL(1) grammars.
 - True
 - ➢ False
- 28. The yacc parser generator can handle LALR(1) grammars.
 - ➤ True
 - ➢ False
- 29. Simple code generation considers one AST node at a time. If the target is a *register* machine, the code can be generated in one ______ traversal of the AST, possibly introducing temporaries when running out of registers.
 - Depth-first
 - ➢ Breadth-first
 - ➢ Depth-second
 - Breadth-second

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30. Attributes whose value called	es are defined in terms of a node's own attributes, node's siblings and node's parent are
Inherited attributes	PG # 100
Physical attributes	
Logical attributes	
➢ Un-synthesized attrib	outes
31. A linker combines mu	ltiple object files into a executable object.
➢ Single	
> Double	
> Triple	
> Quadruple	
32. The notation	instructs YACC to push a computed attribute value on the stack.
	instructs TACC to push a computed attribute value on the stack.
> \$\$	PG # 106
≻ <mark>\$\$</mark>	
> \$\$ > && > ## >	PG # 106
 \$\$ && ## 33. The following two iter 	PG # 106
> \$\$ > && > ## >	PG # 106
 \$\$ && ## 33. The following two iter 	PG # 106
 > \$\$ > && > ## > 33. The following two iter A → P • Q 	PG # 106
SS $ SS $ $ SS$	PG # 106
SS $ SS $ $ SS$	PG # 106

≻ PR

- 34. When generating a lexical analyzer from a ______ description, the item sets (states) are constructed by two types of "moves": character moves and € moves.
 - ➤ Character
 - ➢ Grammar
 - Token
 - ➢ Sentence
- 35. Hybrid IRs combine elements of _____
 - Graphical (structural)
 - ≻ Linear IRs
 - **Both graphical and linear IRs**
 - ➢ Non-Linear IRs
- 36. x[i] = y This is _____
 - Prefix assignment
 - Postfix assignment
 - Index assignment

PG # 115

PG # 108

- > Non-Index assignment
- 37. A lexical analyzer generator automatically constructs a _____ that recognizes tokens.

≻ <mark>FA</mark>	PG # 18
≻ PDA	

- > DP
- Unidirectional Graph

38. if x relop y goto L Above statement is

- Abstract jump
- Conditional jump

PG # 115

- ➤ While loop
- Unconditional jump

39. In a CFG (Context Free Grammar) the set of terminal and non-terminal symbols must be ____

- Disjoint
- > Logical
- Relational
- > Joint

```
40. S \rightarrow a | B
```

B → Bb | €

The non-terminal B is left recursive.

- ➤ True
- False

41. YACC contains built-in support for handling ambiguous grammars resulting in _____ conflicts.

Shift-reduce

- Shift-Shift
- Reduce-reduce
- Reduce-Shift

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42. The ______ translation statements can be conveniently specified in YACC.

Syntax-directed

PG # 128

- Image-directed
- ➢ Sign-directed
- ➢ Segment-directed
- 43. When constructing an LR(1) parser we record for each item exactly in which context it appears, which resolves many conflicts present in _____ parsers based on FOLLOW sets.

≻ SLR(1)

➤ LRS(1)

- > RLS(1)
- ➤ SLL(1)
- 44. Code generation module has to tackle ____
 - Memory management
 - Instruction selection
 - Instruction scheduling

All of the given

PG # 129

The code generation module has to tackle a number of issues. Memory management, Instruction selection, Instruction scheduling, Register allocation

45. For convenience, lexical analyzers should read the complete _____ program into memory.

Input

- > Output
- ➢ Input and output
- ➤ Tokens

46. Considering the following grammar:

 $\begin{array}{l} S \rightarrow A \mid x \\ A \rightarrow aAb \mid x \end{array}$

The grammar contains a _____ conflict.

Reduce-reduce

- ➢ First-first
- ➤ Shift-shift
- ➢ Shift-reduce
- 47. SLR (1) parsers only reduce a production rule when the current input token is an element of the FOLLOW set of that rule.
 - $S \rightarrow A B$
 - A → € | aA
 - $B \rightarrow b \mid bB$
 - FOLLOW (A) contains 2 elements.
 - ➤ True
 - ➢ False
- 48. SLR (1) parsers only reduce a production rule when the current input token is an element of the FOLLOW set of that rule.
 - $S \rightarrow A B$
 - $A \rightarrow a \mid aA$
 - B → € | bB
 - FOLLOW (A) contains 2 elements.
 - True

➢ False

49. The order in which the DAG is traversed can lead to code PG # 143 > Better ≻ Worse ➤ Large ➢ Garbage 50. Register allocation problem uses the strategy of Graph coloring PG # 144 Graph nodding \succ Graph edging ➢ Graph patching 51. Typical compilation means programs written in high-level languages to low-level **Object code PG # 06** \geq Byted code \geq Unicode \succ Object code and byte code 52. In compilation process, Hierarchical analysis is also called \triangleright Parsing Syntax analysis. \succ **Click here for more detail** Parsing and syntax analysis ➢ None of the given

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

- Registers
 PG # 10
- ➤ Memory
- ➤ Hard disk
- \triangleright None of the given

54. 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 the given

55. Parsers take ______ as input from lexical analyzer.

- Linker
- Token
- Instruction
- None of the given

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

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

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57. In multi pass compiler, during the first pass it gathers information about
> Declaration
> Bindings
Static information
None of the given
58. In DFA minimization, we construct one for each group of states from the initial DFA.
> State PG # 30
> NFA
> PDA
> None of the given
59 (Lexical Analyzer generator), is written in java.
> Flex
> Jlex PG # 31
> Complex
None of the given
60. In Flex specification file, different sections are separated by
▷ %% PG # 31
> &&
> ##
None of the given
الله کا خوف سب سے بڑی دانائی ہے

- 61. Recursive _____ parsing is done for LL(1) grammar.
 - Decent **Click Here For More Detail** \geq
 - Ascent
 - Forward
 - ➢ None of the given
- 62. Alternative of the backtrack in parser is Look ahead symbol in
 - Input
 - Output \geq
 - Input and output
 - ➢ None of the given
- 63. Parser takes tokens from scanner and tries to generate
 - Binary search tree
 - Parse tree \geq
 - Binary search tree and parse tree.
 - ➢ None of the given
- 64. In predictive parsing table, the rows represents _
 - Terminals \geq
 - Both non-terminal and terminal \triangleright
 - Non-terminal PG # 62 \geq
 - ➢ None of the given

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65. A predie	ctive parser is a top-down parser.
Þ	True
>	False
66. In LL(1)	parsing algorithm, contains a sequence of grammar symbols.
~	Stack PG # 62
*	Link list
4	Array
×	None of the given
67. Bottom-	up parsing uses only kinds of actions.
>	Two PG # 71
>	Three
~	Four
4	Five
Bottom-up pa	arsing uses only two kinds of actions: 1. Shift, 2. Reduce
68. Bottom-	up parsers handle a class grammars.
4	Large PG # 49
>	Small
>	Medium
4	None of the given
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C. J.	

69. The shif	action a terminal on the stack.	
>	Pushes PG # 73	
A	Pops	
>	Both push and pops	
>	None of the given	
70. Reduce	ction zero or more symbols from the stack.	
~	Pushes	
>	Pops PG # 73	
	Both push and pops	
	None of the given	
	lers, linear analysis is also called	
	Lexical analysis	
×	Scanning	
A	Lexical analysis and scanningClick Here For More DetailNone of the given	
	d of two-pass compiler uses algorithm.	
	O(n)	
	$O(n \log n)$	
	NP Complete	
	None of the given	

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73. The Back End of a compiler consist of _____

- Instruction selection
 <u>Click Here For More Detail</u>
- Register allocation
- Instruction scheduling
- \triangleright All of the given

74. In Back End module of compiler, optimal register allocation uses _____

- \triangleright O(log n)
- \triangleright O(n log n)
- > NP-Complete
- \blacktriangleright None of the given

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

- Linker
- Token <u>Click Here for More Detail</u>
- Control flow
- ➢ None of the given

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

≻ <mark>aa*</mark>

- ► (aa)*
- ▶ aa*a
- ➤ a(aa)*

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77	algorithm is used in DFA n	ninimization.
	> James's	
	Robert's	
	Hopcroft's	PG # 25
	> None of the given	
78	is an important compo	nent of semantic analysis.
	Code checking	
	> Type checking	PG # 39
	Flush checking	
	> None of the given	
79. In _	, certain checks are perfo	ormed to ensure that components of a program fit together meaningfully.
	Linear analysis	
	Hierarchical analysis	
	Semantic analysis	Click Here For More Detail
	> None of the given	
80	read the input character and	produce sequence of tokens as output.
	Lexical analyzer	Click Here For More Detail
	> Parser	
	Symbol table	
	> None of the given	

خود کو تمہیں سے بڑھ کر کوئی اچھا مشورہ نہیں دے سکتا

81. _____ of a two-pass compiler is consist of instruction selection, Register allocation and instruction scheduling.

Backend

- Frontend
- > Start
- \triangleright None of the given
- 82. _____ is evaluated to yield a value.
 - ➢ Command
 - Expression
 <u>Click Here For More Detail</u>
 - Declaration
 - ➢ None of the given
- 83. A parser transforms a stream of tokens into an AST (Abstract Syntax Tree).

True

- ➢ false
- 84. A parser transforms a stream of characters into a stream of tokens.
 - ➤ True
 - False
- 85. A lexical analyzer transforms a stream of characters into a stream of tokens.
 - True
 - ➢ False

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- 86. S \rightarrow a | A
 - $A \rightarrow Aa \mid a$

This grammar is ambiguous.

- True
- ➢ False
- 87. The regular expressions (a+|b)? and a+|b? describe the same set of strings.
 - ➤ True
 - ➢ False
- 88. The regular expressions $\mathbf{a}^*|\mathbf{b}^*$ and $(\mathbf{a}|\mathbf{b})^*$ describe the same set of strings.
 - ➢ True
 - ➢ False
- 89. The regular expressions a+a and a*aa describe the same set of strings.
 - True
 - ➢ False
- 90. A lexical analyzer generator automatically construct a FSA (Finite State Automaton) that recognizes tokens.
 - The generator is driven by a regular description
 - True
 - ➢ False
- 91. The transition table in a lexical analyzer records for each state (row) which token, if any, is recognized in that

state. - For each token there may be more than one "recognizing" row in the table.

- True
- ➢ False

- 92. A recursive descent parser is based on a PDA (Push Down Automaton).
 - True
 - ➤ False
- 93. A **bottom-up** parser creates the nodes in the AST in pre-order.
 - ➤ True
 - ➢ False
- 94. A top-down parser creates the nodes in the AST (Abstract Syntax Tree) in preorder.
 - > True
 - ➢ False
- 95. A ______ parser creates the nodes in the AST in preorder.
 - Top Down
 - ➢ Bottom − Up
 - ➢ Middle − Ware
 - > Straight
- 96. The stack used in a bottom-up parser contains an alternating sequence of states and grammar symbols.
 - > True
 - ➢ False
- 97. The following two items
 - $A \rightarrow P \cdot Q$
 - $B \rightarrow P Q \bullet$

Can coexist in an LR item set.

- ➤ True
- ➢ False

98. The following two items

 $A \rightarrow x \cdot B$

 $B \not \bullet y$

Can coexist in an LR item set.

True

➢ False

99. The following two items

 $A \rightarrow P \cdot P$

 $B \rightarrow Q \cdot Q$

Can coexist in an LR item set.

➢ True

```
➢ False
```

100. S \rightarrow A | xb

 $A \rightarrow aAb \mid x$

This is an LALR(1) grammar.

> True

➢ False

101. A linker combines multiple object files into a single executable object.

True

➢ False

102. Data-flow equations can be solved efficiently by using bitwise boolean instructions (AND, OR, etc.).

True

➢ False

103. Data-flow equations operate with IN, OUT, GEN, and KILL sets.

- True
- ➢ False
- 104. When threading an AST it might be necessary to introduce additional (join) nodes to ensure that each language

construct has a single exit point.

- True
- ➢ False
- 105. An iterative interpreter operates on a threaded AST.
 - ➢ True
 - ➢ False

106. S \rightarrow A | B

 $A \rightarrow \in | aA$

 $B \rightarrow b \mid bB$

FIRST(S) contains ______ elements.

- ≥ 2
- > 3
- > 4
- > None

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107. The following set

 $S \rightarrow \cdot A \times \{\$\}$ $A \rightarrow \cdot a \{x\}$ $A \rightarrow \cdot a A \{x\}$ is a valid LR(1) item set

➤ True

➢ False

108. S \rightarrow Ab

A → Aa | €

FIRST(S) contains 3 elements.

➢ True

➢ False

109. The regular expressions **a**(**b**|**c**) and **ab**|**ac** describe the same set of strings.

True

➢ False

110. S → a | B

 $B \rightarrow Bb \mid E$

The non-terminal ______ is left recursive.

- B
- ≽ a
- ► E
- None of the given

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114. Three-address codes are often implemented as a

Set of quadruples PG # 104

- Set of doubles
- Set of Singles
- None of the given
- 115. What does following statement represent? x[i] = y
 - Prefix assignment
 - Postfix assignment
 - indexed assignment PG #107
 - None of the given
- 116. _____ convert the reloadable machine code into absolute machine code by linking library and reloadable object files.

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- > Assembler
- Loader/link-editor
- ➤ Compiler

_____6

> Preprocessor

117. Consider the following grammar,

 $A \rightarrow B C D$ $B \rightarrow h B | episilon$ $C \rightarrow C g | g | C h | i$ $D \rightarrow A B | episilon$ First of A is _____

⊳ g

≻ h, g, i

- ≻ h
- None of the given

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

➢ True PG # 14

- ➤ False
- 119. Compilers are sometimes classified as.
 - Single pass
 - Multi pass
 - Load and go
 - All of the given

Click here for more detail

- 120. In multi pass compiler during the first pass it gathers information about _
 - Declaration

Click here for more detail

- Bindings
- Static information
- None of the given

- 121. We can get an LL(1) grammar by
 - Removing left recurrence
 - Applying left factoring
 - Removing left recurrence and Applying left factoring

Click for more detail

- None of the given
- 122. Consider the following grammar, S --> aTUe T --> Tbc/b U --> d And suppose that string "abbcde" can be parsed bottom-up by the following reduction steps:
 - (i) aTbcde
 - (ii) aTde
 - (iii) aTUe
 - (iv) S

So, what can be a handle from the following?

- The whole string, (aTUe)
 PG # 68
- The whole string, (aTbcde)
- > The whole string, (aTde)
- None of the given
- 123. When generating a lexical analyzer from a token description, the item sets (states) are constructed by two types of "moves": character moves and _____ moves.
 - E (empty string)
 PG # 18
 - > #
 - ▶ @
 - none of given

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

- Front End depends upon Back End
- Back End depends upon Frond End PG # 5
- Both are independent of each other
- \triangleright None of the given

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125	avoid hardware stalls and interlocks.
×	Register allocation
	Instruction scheduling PG #10
	Instruction selection
>	None of given
126. I	Front end of two pass compiler takes as input.
>	Source code PG # 5
>	Intermediate Representation (IR)
	Machine Code
~	None of the Given
127. 1	In Three-pass compiler is used for code improvement or optimization.
	Front End
	Middle End PG # 10
	Back End
	Both Front end and Back end
128 Ins	of a two-pass compiler is consists of Instruction selection, Register allocation and struction scheduling.
	Back end PG # 9
> 1	Front end
> 2	Start
1 <	None of given
129. 1	NFA is easy to implement as compared to DFA.
	True
	False PG # 19

130. In a transition table cells of the table contain the ______ state.

- Reject state
- Next state PG #18
- Previous state
- None of the given
- 131. The regular expressions $a^*|b^*$ and $(a|b)^*$ describe the _____set of strings.
 - ➤ Same
 - Different
 - Onto
- 132. A canonical collection of sets of items for an augmented grammar, C is constructed as _____
 - For each set / in C and each grammar symbol X where goto (C, X) is empty and not in C add the set goto (C, X) to C.
 - The first set in C is the closure of {[S' --> .S]}, where S' is starting symbol of original grammar and S is the starting non-terminal of augmented grammar.
 PG # 72
 - The first set in C is the closure of {[S' --> .S]}, where S is starting symbol of original grammar and S' is the Starting non-terminal of original grammar.

133. The ______translation statements can be conveniently specified in YACC

Syntax-directed

PG # 120

- Image-directed
- Sign-directed
- ➢ None of the given.

اپنی مرضی اور اللہ کی مرضی میں فرق کا نام غم ہے

134. Attributes whose values are defined in terms of a node's own attributes, node's siblings and node's parent are called ______.

Inherited attributes PG # 92

Physical attributes

- Logical attributes
- Un-synthesized attributes
- 135. Consider the grammar

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

Follow of B is _____

h
g, h, i, \$
g, i
g

136. Consider the grammar A --> B C D

B --> h B | epsilon C --> C g | g | C h | i D --> A B | epsilon Follow of C is _____. > g, h, i, \$ PG # 47 > g, h, \$

≻ h, i, \$

≻ h, g, \$

137. The test of string is described by a rule called a _____, associated with token.

- Character \triangleright
- Loader
- Pattern
- None of the given \triangleright
- 138. Bottom up parsing is also called
 - **PG # 70** LR Parsing
 - LT Parsing \triangleright
 - LS Parsing \triangleright
 - ➢ None of the given

Bottom-up parsing is more general than top-down parsing. Bottom-up parsers handle a large class of grammars. It is the preferred method in practice. It is also called *LR* parsing;

139. A DFA can be reconstructed from NFA using the subset construction, similar to one used for_

Lexical Analysis \geq

PG # 82

- **Physical Analysis** \triangleright
- Logical Analysis \geqslant
- Parsing

140. Which of the following system software resides in the main memory always?

- Text editor
- Assembler
- Linker
- Loader

141.	plays an important role in code optimization.
≻	DAG PG # 143
۶	Lexical Analyzer
≻	AGD
≻	Memory Management
142.	LR parsers can handle grammars.
>	Left-recursive PG # 63
>	file-recursive
>	End-recursive
\triangleright	Start-recursive

- 143. Performing common sub expression elimination on a dependency graph requires the identification of nodes with the same operator and operands. When using a hash table (with a hash function based on operator and operands) all______ nodes can be identified in linear time.
 - Common
 - Uncommon
 - > Next
 - Previous
- 144. Linear IRs resembles pseudo-code for same ____
 - Automated Machine
 - Mechanical machines
 - Token machines
 - Abstract machine

PG # 100

بری صحبت سے تنہائی بہتر ہے اور تنہائی سے نیک صحبت بہتر ہے

145. S \rightarrow A B
$A \rightarrow \in aA$
$B \rightarrow \in bB$
- FIRST(S) contains elements
> 3 PG # 46
First{S} = {e,a,b}
146. Dotted items ($T \rightarrow \alpha \cdot \beta$) record which part of a token has already been matched. Integer? ([0-9])+ \cdot this is a item.
> Reduced
147. A is a top down parser.
Predictive Parsing PG # 46
148. Dotted items ($T \rightarrow \alpha \cdot \beta$) record which part of a token has already been matched. There are two kinds of basic items: shift items and reduce items . Integer! (•[0-9])+
- This is a shift item.
> True
> False
Note: Give me a feedback and your Suggestion also If you find any mistake in mcqz plz inform me Via Contact us Page on our Site. And tell me your answer with references.
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