CS606 Final Term Papers By Waqar (File 1)

Question No : 1 of 52 **Marks: 1 (Budgeted Time 1 Min)**

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

Answer (Please select your correct option)

- Assembler
- Loader/link-editor

Correct answer solved by Hadi
Email : usmanraj20@gmail.com
Cell no: 03228043306

- Compiler
- Preprocessor

Question No : 2 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Parsers take ____ as input from lexical analyzer.

Answer (Please select your correct option)

- Linker
- Token

Correct answer solved by Hadi
Email : usmanraj20@gmail.com
Cell no: 03228043306

- Instruction
- None of the given

Question No : 3 of 52 **Marks: 1 (Budgeted Time 1 Min)**

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

Answer (Please select your correct option)

- a*
- (a*|b*)*
- (a*b*)*
- (a|b)(a|b)

Correct answer solved by Hadi
Email : usmanraj20@gmail.com
Cell no: 03228043306

For More Visit VU Answer

Question No : 4 of 52 **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)* check
- aa*a
- a(aa)*

Correct answer solved by Hadi
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Made by: Waqar Siddhu

Question No : 5 of 52 **Marks: 1 (Budgeted Time 1 Min)**

_____ phase supports macro substitution and conditional compilation.

Answer (Please select your correct option)

- Semantic
- Syntax
- Preprocessing
- None of given

Correct answer solved by Hadi
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Question No : 6 of 52 **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.

Correct answer solved by Hadi
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For More Visit VU Answer

Question No : 7 of 52 **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 — Correct answer solved by Hadi Email : usmanraj20@gmail.com Cell no: 03228043306
- g
- h
- None of the given.

Question No : 8 of 52 **Marks: 1 (Budgeted Time 1 Min)**

_____ parsers never shifts into an error state.

Answer (Please select your correct option)

- LS
- LT
- LR — Correct answer solved by Hadi Email : usmanraj20@gmail.com Cell no: 03228043306
- LP

Question No : 9 of 52 **Marks: 1 (Budgeted Time 1 Min)**

In parser, the two LL stand for _____ .

Answer (Please select your correct option)

- Left-to-right scan of input
- left-most derivation
- Left-to-right scan of input and left-most derivation — Correct answer solved by Hadi Email : usmanraj20@gmail.com Cell no: 03228043306
- None of the given

For More Visit VU Answer

Question No : 10 of 52 **Marks: 1 (Budgeted Time 1 Min)**

_____ is elaborated to produce bindings.

Answer (Please select your correct option)

- Declaration

Correct answer solved by Hadi
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- Expression
- Command
- None of the given

Question No : 11 of 52 **Marks: 1 (Budgeted Time 1 Min)**

A lexical analyzer generated by ____ is essentially a FSA.

Answer (Please select your correct option)

- Dex
- Mex
- Fex
- Lex

Correct answer solved by Hadi
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Question No : 12 of 52 **Marks: 1 (Budgeted Time 1 Min)**

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

Answer (Please select your correct option)

- Current input token

Correct answer solved by Hadi
Email : usmanraj20@gmail.com
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- Next Input Token
- Previous output Token
- Previous Input Token.

For More Visit VU Answer

Question No : 13 of 52 **Marks: 1 (Budgeted Time 1 Min)**

The following grammar contains a _____ conflict.

S → *A* | *xb*

Answer (Please select your correct option)

- Shift-Reduce

Correct answer solved by Hadi
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- First-Reduce
- Shift-First
- Reduce-Reduce

Question No : 14 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Considering the following grammar:

S → AB
A → *ε* | aA
B → b | bB

Answer (Please select your correct option)

- 1
- 2
- 3
- 4

Question No : 15 of 52 **Marks: 1 (Budgeted Time 1 Min)**

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.

Answer (Please select your correct option)

- Depth-first

Correct answer solved by Hadi
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- Breadth-first
- First-first
- Shift-Reduce

Question No : 16 of 52 **Marks: 1 (Budgeted Time 1 Min)**

_____ is a register allocation technique that *always* finds the minimal number of registers needed for a procedure.

Answer (Please select your correct option)

- Dangling reference
- Graph coloring

Correct answer solved by Hadi
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- Left Factoring
- Right Recursion

Question No : 17 of 52 **Marks: 1 (Budgeted Time 1 Min)**

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.

Answer (Please select your correct option)

- Token sequences
- Ladder sequences

check

Correct answer solved by Hadi
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- Physical sequences
- Logical sequences

Question No : 18 of 52 **Marks: 1 (Budgeted Time 1 Min)**

_____ can be considered a small compiler since it transforms a source language (assembly) into a less abstract target language (binary object code).

Answer (Please select your correct option)

- Parser
- Assembler
- Lexical analyzer

Correct answer solved by Hadi
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- Scanner

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Question No : 19 of 52 Marks: 1 (Budgeted Time 1 Min)

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.

Answer (Please select your correct option)

- One

Correct answer solved by Hadi
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- Two
- Three
- Four

Question No : 20 of 52 Marks: 1 (Budgeted Time 1 Min)

A parser transforms a stream of tokens into an _____ .

Answer (Please select your correct option)

- AST

Correct answer solved by Hadi
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- IST
- EST
- ATS

Question No : 21 of 52 Marks: 1 (Budgeted Time 1 Min)

The parser generator yacc can handle _____ grammars.

Answer (Please select your correct option)

- LL(1)

Correct answer solved by Hadi
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- LT(1)
- LS(1)
- LF(1)

Question No : 22 of 52 **Marks: 1 (Budgeted Time 1 Min)**

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.

Answer (Please select your correct option)

- Depth-first

Correct answer solved by Hadi
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- Breadth-first
- Depth-second
- Breadth-second

Question No : 23 of 52 **Marks: 1 (Budgeted Time 1 Min)**

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

Answer (Please select your correct option)

- Inherited attributes

Correct answer solved by Hadi
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- Physical attributes
- Logical attributes
- Un-synthesized attributes

Question No : 24 of 52 **Marks: 1 (Budgeted Time 1 Min)**

A linker combines multiple object files into a _____ executable object.

Answer (Please select your correct option)

- Single

Correct answer solved by Hadi
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- Double
- Triple
- Quadruple

Question No : 25 of 52 Marks: 1 (Budgeted Time 1 Min)

The notation _____ instructs YACC to push a computed attribute value on the stack.

Answer (Please select your correct option)

- $$
- &&
- ##
- --

Correct answer solved by Hadi
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Question No : 26 of 52 Marks: 1 (Budgeted Time 1 Min)

The following two items

A → P • Q
B → P • Q

can co-exist in an _____ item set.

Answer (Please select your correct option)

- LR
- LS
- LT
- PR

Correct answer solved by Hadi
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Question No : 26 of 52 Marks: 1 (Budgeted Time 1 Min)

The following two items

A → P • Q
B → P • Q

can co-exist in an _____ item set.

Answer (Please select your correct option)

- LR
- LS
- LT
- PR

Correct answer solved by Hadi
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Question No : 27 of 52 **Marks: 1 (Budgeted Time 1 Min)**

When generating a lexical analyzer from a _____ description, the item sets (states) are constructed by two types of "moves": character moves and ε moves.

Answer (Please select your correct option)

- Character
- Grammar
- Token
- Sentence

Question No : 28 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Hybrid IRs combine elements of _____ .

Answer (Please select your correct option)

- Graphical (structural)
- Linear IRs
- Both graphical and linear IRs
- Non-Linear IRs

Question No : 29 of 52 **Marks: 1 (Budgeted Time 1 Min)**

x[i] = y

This is _____ .

Answer (Please select your correct option)

- Prefix assignment
- Postfix assignment
- Index assignment
- Non-Index assignment

Question No : 30 of 52 Marks: 1 (Budgeted Time 1 Min)

A lexical analyzer generator, automatically constructs a _____ that recognizes tokens.

Answer (Please select your correct option)

- FA

Correct answer solved by Hadi
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- PDA
- DP
- Unidirectional Graph

Question No : 31 of 52 Marks: 1 (Budgeted Time 1 Min)

if x relop y goto L

Above statement is _____

Answer (Please select your correct option)

- Abstract jump
- Conditional jump

Correct answer solved by Hadi
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- While loop
- Unconditional jump

Question No : 32 of 52 Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

- Disjoint

Correct answer solved by Hadi
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- Logical
- Relational
- Joint

Question No : 33 of 52 Marks: 1 (Budgeted Time 1 Min)

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

Answer (Please select your correct option)

- Shift-reduce

Correct answer solved by Hadi
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- Shift-Shift
- Reduce-reduce
- Reduce-Shift

Question No : 34 of 52 Marks: 1 (Budgeted Time 1 Min)

The _____ translation statements can be conveniently specified in YACC.

Answer (Please select your correct option)

- Syntax-directed

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- Image-directed
- Sign-directed
- Segment-directed

Question No : 35 of 52 Marks: 1 (Budgeted Time 1 Min)

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.

Answer (Please select your correct option)

- SLR(1)

Correct answer solved by Hadi
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- LRS(1)
- RLS(1)
- SLL(1)

Question No : 36 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Code generation module has to tackle _____.

Answer (Please select your correct option)

- Memory management
- Instruction selection
- Instruction scheduling

Correct answer solved by Hadi
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- All of the given

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Question No : 37 of 52 **Marks: 1 (Budgeted Time 1 Min)**

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

Answer (Please select your correct option)

- Input

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- Output
- Input and output
- Tokens

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Question No : 38 of 52 **Marks: 1 (Budgeted Time 1 Min)**

Considering the following grammar:

S → A | x
A → aAb | x

The grammar contains a _____ conflict.

Answer (Please select your correct option)

- Reduce-reduce

Correct answer solved by Hadi
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- First-first
- Shift-shift
- Shift-reduce

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Question No : 39 of 52 Marks: 1 (Budgeted Time 1 Min)

The order in which the DAG is traversed can lead to _____ code

Answer (Please select your correct option)

- Better

Correct answer solved by Hadi
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- Worse
- Large
- Garbage

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Question No : 40 of 52 Marks: 1 (Budgeted Time 1 Min)

Register allocation problem uses the strategy of _____ .

Answer (Please select your correct option)

- Graph coloring

Correct answer solved by Hadi
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- Graph nodding
- Graph edging
- Graph patching

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