

### CS606- compiler instruction Solved MCQS

**From Midterm Papers** 

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PSMD01

# MIDTERM EXAMINATION Fall 2012 CS606- compiler instruction

Question # 1 (Total Marks: 1) Select co.	rrect option:
LR parsers can handle	grammars.
Left-recursive (Page 63)	
file-recursive	
End-recursive	
Start-recursive	
Question # 2 (Total Marks: 1) Select co.	rrect option:
convert the relocatable machine co	de into absolute machine code by linking library and relocatable
object files.	
Assembler	
Loader/link-editor	
Compiler	
Preprocessor	
Question #3 (Total Marks: 1) Select co	rrect option:
Follow of C is	
g, h, i, \$	
g, h, \$	
h, i, \$	
h, g, \$	

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Question # 4 (Total Marks: 1) Select correct option:	
Consider the grammar A> B C D	
B> h B   epsilon	
$C \longrightarrow C g \mid g \mid C h \mid i$	
D> A B   epsilon	
Follow of B is	
h a man the land a some we then be a man to the land a some we then	
g, h, i, \$	
g, i	
Question # 5 (Total Marks: 1) Select correct option:	
An important component of semantic analysis is	
code checking	
type checking (Page 33)	
flush checking	
None of the given	
Question # 6 (Total Marks: 1) Select correct option:	
In PASCAL represent the inequality test.	
마트워크 선물이 가게 되면 하는데 그리고 선물이 가게 되면 하는데 그리고 선물이 가게 되면 하는데 그리고 선물이 가지 않니?	
None of the given	
Two is of the given	
Question # 7 (Total Marks: 1) Select correct option:	
Lexical Analyzer generator is written in Java.	
Lexical Final year generator is written in sava.	
Flex	
Jlex (Page 26)	
Complex	
None of given	

Question # 8 (Total Marks: 1) Select correct option:
avoid hardware stalls and interlocks.
Register allocation
Instruction scheduling (Page 121)
Instruction selection
None of given
Question # 9 (Total Marks: 1) Select correct option:
Consider the following grammar,
A> B C D
B> h B   epsilon
C> C g   g   C h   i
D> A B   epsilon
First of A is
h, g, i
g and the state of
h .
None of the given
Question # 10 (Total Marks: 1) Select correct option:
Recursive parsing is done for LL(1) grammar.
Descent (Page 47)
Ascent
Forward
Backward
Question # 1 (Total Marks: 1) Select correct option:
One of the core tasks of compiler is to generate fast and compact executable code.
<u>True</u>
False
Question # 11 (Total Marks: 1) Select correct option:
Left factoring of a grammar is done to save the parser from back tracking.
True
False

Question # 12 (Total Marks: 1) Select correct option:
Responsibility of is to produce fast and compact code.
Instruction selection (Page 9)
Register allocation
Instruction scheduling
None of given
Question # 13 (Total Marks: 1) Select correct option:
algorithm is used in DFA minimization.
James's
Robert's
Hopcroft's (Page 25)
None of given
Question # 14 (Total Marks: 1) Select correct option:
Compilers are sometimes classified as.
Single pass
Multi pass
Load and go
All of the given click here for detail
Question # 15 (Total Marks: 1) Select correct option:
In multi pass compiler during the first pass it gathers information
about  Declaration click here for detail
Bindings
Static information
None of the given
Question # 16 (Total Marks: 1) Select correct option:
Flex is an automated tool that is used to get the minimized DFA (scanner).
True False (Page 26)
Taise (Lage 20)
Question # 17 (Total Marks: 1) Select correct option:
In compilation process Hierarchical analysis is also called
Parsing
Syntax analysis
Both Parsing and Syntax analysis <u>click here 4 detail</u>
None of given

#### **Question #18 (Total Marks: 1) Select correct option:**

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 #19 (Total Marks: 1) Select correct option:**

is evaluated to yield a value.

Command

#### **Expression**

Declaration

**Declaration and Command** 

#### **Question #20 (Total Marks: 1) Select correct option:**

Optimal registers allocation is an NP-hard problem.

True

False

## MIDTERM EXAMINATION Fall 2012 CS606- compiler instruction

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

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

Binary Search tree

#### Parse tree

Syntax trace

None of the given

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Question # 2 (Total Marks: 1) Select correct option:
Front end of two pass compiler takes as input.
Source code (Page 5)
Intermediate Representation (IR)
Machine Code
None of the Given
Question # 3 (Total Marks: 1) Select correct option:
In in we construct one for each group of states from the initial DFA.
State (Page 25) NFA
PDA
None of given
Question # 4 (Total Marks: 1) Select correct option: In Three-pass compiler is used for code improvement or optimization.
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
Question # 5 (Total Marks: 1) Select correct option:
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
Overtion # 6 (Total Marka, 1) Salast convect antique
Question # 6 (Total Marks: 1) Select correct option: NFA is easy to implement as compared to DFA.
True
False (Page 19)
Question # 7 (Total Marks: 1) Select correct option:  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

	Marks: 1) Select correct tree like structure as ou		
	Marks: 1) Select correct of compiler, optimal reg		
O(log n) O(n log n) N P-Complete (Page None of the given	e 10)		

### CS606 – Midterm Solved Quizzes (Quiz No.1 & 2)

Question # 1 of 10 (Total Marks: 1) Select correct option:
Lexer and scanner are two different phases of compiler
Select correct option: True
False
Question # 2 of 10 (Total Marks: 1) Select correct option:  In Flex specification file different sections are separated by
%% (Page 26)
&&
Question # 3 of 10 (Total Marks: 1) Select correct option:  phase which supports macro substitution and conditional compilation.
Semantic
Syntax
Preprocessing Click here for detail
None of given
Question # 4 of 10 (Total Marks: 1) Select correct option:tree in which each node represents an operator and children of the node represent the operands.
Abstract syntax (Page 100)
Concrete syntax
Parse
None of the given
Question # 5 of 10 (Total Marks: 1) Select correct option:
Incertain checks are performed to ensure that components of a program fit together meaningfully.
Linear analysis
Hierarchical analysis
Semantic analysis (Page 33)
None of given

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 # 7 of 10 (Total Marks: 1) Select correct option: 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 # 8 of 10 (Total Marks: 1) Select correct option: Ambiguity can easily be handled by Top-down Parser  True click here for detail False  Question # 10 of 10 (Total Marks: 1) Select correct option: Alternative of the backtrack in parser is Look ahead symbol in Input (Page 46) Output Input and Output None of the given  Question # 1 of 10 (Total Marks: 1) Select correct option:	
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Question # 1 of 10 (Total Marks: 1) Select correct option:	
Question # 1 of 10 (10th) Marks. 1) Select correct option.	
Typical compilation means programs written in high-level languages to low-level  Object code  Byted code  Unicode  Both Object Code and byte code (Page 2)	
Question # 2 of 10 (Total Marks: 1) Select correct option:  LR parsing a string to the start symbol by inverting productions.  Reduces (Page 63)  Shifts  Adds  None of the given	

Question # 3 of 10 (Total Marks: 1) Select correct option:	
In parser the two LL stand(s) for	
Left-to-right scan of input	
left-most derivation	
All of the given <u>click here for detail</u>	
None of the given	
Trone of the given	
Question # 4 of 10 (Total Marks: 1) Select correct option:	
Bottom-up parsers handle a class of grammars.	
Large (Page 63)	
Small	
Medium	
None of the given	
Question # 5 of 10 (Total Marks: 1) Select correct option:	
Compilers are some times classified as.	
Compliers are some times classified as.	
Single pass	
Multi pass	
Load and go	
All of the given	
Overstion # 6 of 10 (Total Marker 1) Select connect antique	
Question # 6 of 10 (Total Marks: 1) Select correct option:	
The Back End of a compiler consist of	
I	
Instruction selection (Page 10)	
Register allocation	
Instruction scheduling	
All of the given	
Question # 7 of 10 (Total Marks: 1) Select correct option:	
Can a DFA simulate NFA?	
Yes <u>click here for detail</u>	
No	
Sometimes	
Depend upon nfa	
Question # 8 of 10 (Total Marks: 1) Select correct option:	
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.	

All of the given (Page 15)

Question # 9 of 10 (Total Marks: 1) Select correct option:	
In a transition table cells of the table contain the state.	
Reject state	
Next state (Page 18)	
Previous state	
None of the given	
Question # 10 of 10 (Total Marks: 1) Select correct option:	
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 # 1 of 10 (Total Marks: 1) Select correct option:	
Functions of Lexical analyzer are?	
Removing white space	
Removing constants, identifiers and keywords	
Removing comments	
All of the given click here for detail	
Question # 2 of 10 (Total Marks: 1) Select correct option:	
method is known as Subset Construction Method.	
NFA TO DFA (Page 19)	
DFA	
DFA maximization	
None of given	
Question # 3 of 10 (Total Marks: 1) Select correct option:	
Which one is NOT the Role of Run-Time System	
garbage collection	
memory management	
run time error checking	
none of given (Page 11)	
Question # 4 of 10 (Total Marks: 1) Select correct option:	
Compiler information from one representation to another	
modified modified	
translate (Page 2)	
execute	
extract	

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Question # 5 of 10 (Total Marks: 1) Select correct option: Front-end of a two pass compiler is consists of Scanner. True False (Page 12)
Question # 6 of 10 (Total Marks: 1) Select correct option:  Bottom-up parsing uses only kinds of actions.  Two (Page 64)  Three  Four  Five
Question #7 of 10 (Total Marks: 1) Select correct option:  Bottom-up parsing is also called  LR parsing (Page 63)  LT parsing  LS parsing  SS parsing
Question # 8 of 10 (Total Marks: 1) Select correct option: Backtracking is a costly operation which is caused due to Left Recursion.
True False
Question # 9 of 10 (Total Marks: 1) Select correct option:  A non-recursive predictive parser is also called
table-driven parser (Page 54) Abstract parser Conceptual parser None of the given
Question # 10 of 10 (Total Marks: 1) Select correct option: AST summarizes the grammatical structure with the details of derivations. True False (Page 8)
Question # 1 of 10 (Total Marks: 1) Select correct option: Backtrack is term associated with Top-down parsing.
True (Page 42) False

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Question # 2 of 10 (Total Marks: 1) Select correct option: Which of the following statement/s is/are true about Deterministic Finite Automata?
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: