



In the Name of Allāh, the Most Gracious, the Most Merciful

MidTerm Papers Solved MCQS with Reference (1 to 22 lectures)

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

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

2. In compilation process, Hierarchical analysis is also called _____.

- Parsing
- **Syntax** [Click Here For More Detail](#)
- Parsing and Syntax analysis
- None of given

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

☐ **Registers**

PG # 10 [Click Here For More Detail](#)

☐ Memory

☐ Hard disk

☐ None Of given

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

☐ Linker

☐ **Token**

[Click Here for More Detail](#)

☐ Control flow

☐ None of given

5. Parsers take _____ as Input from lexical analyzer.

☐ Linker

☐ **Token**

☐ Instructions

☐ None of the given

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

☐ **DFA**

☐ NFA

☐ PDA

☐ None of the given

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

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

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

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

9. _____(Lexical Analyzer generator), is written in Java

- ☐ Flex
- ☐ **Jlex** [Click here for More Detail](#) **PG # 31**
- ☐ Complex
- ☐ None of given

JLex is a lexical analyzer generator, written for Java, in Java.

10. In Flex specification file, different sections are separated by _____.

- ☐ **%%** [Click Here For More Detail](#) **PG # 31**
- ☐ &&
- ☐ ##
- ☐ None of given

11. Recursive _____ parsing is done for LL(I) grammar.

- **Decent** [Click Here For More Detail](#)
- Ascent
- Forward
- None of the given

12. Alternative of the backtrack in parser is Look ahead symbol in _____.

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

13. Parser takes tokens from scanner and tries to generate _____.

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

14. In predictive parsing table, the rows represents _____.

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

15. In LL(I) parsing algorithm,_____ contains a sequence of grammar symbols.

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

16. Consider the grammar

$$A \rightarrow B C D$$

$$B \rightarrow h B \mid \epsilon$$

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

$$D \rightarrow AB \mid \epsilon$$

First of A is _____.

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

17. Consider the grammar

$$A \rightarrow B C D$$

$$B \rightarrow h B \mid \epsilon$$

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

$$D \rightarrow AB \mid \epsilon$$

First of C is _____.

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

18. Bottom-up parsing uses only _____ kinds of actions.

- ☐ **Two** **PG # 71**
- ☐ Three
- ☐ Four
- ☐ Five

Bottom-up parsing uses only two kinds of actions: 1. Shift, 2. Reduce

Shift: Move | one place to the right
■ Shifts a terminal to the left string

Reduce : Apply an inverse production at the right end of the left string

19. The shift action _____ a terminal on the stack.

- ☐ **Pushes** **PG # 73**
- ☐ Pops
- ☐ Both push and pops
- ☐ None of the given

20. Reduce _____ action zero or more symbols from the stack

- ☐ Pushes
- ☐ **Pops** **PG # 73**
- ☐ Both push and pops
- ☐ None of the given

21. In compilers, linear analysis is also called _____.

- ☐ Lexical analysis
- ☐ Scanning
- ☐ **Lexical analysis and scanning** [Click Here For More Detail](#)
- ☐ None of the given

22. Back End of two-pass compiler uses _____ algorithm.

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

23. The Back End of a compiler consist of _____.

- ☐ **Instruction selection** [Click Here For More Detail](#)
- ☐ Register allocation
- ☐ Instruction scheduling
- ☐ All of the given

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

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

25. _____ 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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26. _____ algorithm is used in DFA minimization.

- James's
- Robert's
- **Hopcroft's**
- None of given

PG # 25

27. _____ is an important component of semantic analysis.

- Code checking
- **Type checking**
- Flush checking
- None of the given

PG # 39

28. Consider the grammar

$$A \rightarrow B C D$$

$$B \rightarrow h B \mid \epsilon$$

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

First of B is_____.

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

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29. Consider the grammar

$$A \rightarrow B C D$$

$$B \rightarrow h B \mid \epsilon$$

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

$$D \rightarrow A B \mid \epsilon$$

First of D is_____.

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

30. _____ Parsers never shifts into an error state.

- ☐ LS
- ☐ LT
- ☐ **LR**
- ☐ LP

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

- ☐ Linear analysis
- ☐ Hierarchical analysis
- ☐ **Semantic analysis** [Click Here For More Detail](#)
- ☐ None of given

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32. _____ 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

33. 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 $aa | ab | ba | bb$.

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

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

35. _____ is evaluated to yield a value.

- ☐ Command
- ☐ **Expression** [Click Here For More Detail](#)
- ☐ Declaration
- ☐ None of the given

36. Bottom-up parsers handle a _____ class of grammar.

- **Large** [Click Here for More Detail](#) PG # 49
- Small
- Medium
- None of the given

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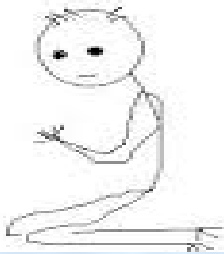
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but wanting to win is
everything.....
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THE END

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