

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

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**
- Memory
- Hard disk
- None Of given

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

4. 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

[Click Here for More Detail](#)

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

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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

$$A \rightarrow B C D$$

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

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

$$D \rightarrow AB | \epsilon$$

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

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

17. 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

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** PG # 25
- None of given

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

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

28. Consider the grammar

$$A \rightarrow B C D$$

$$B \rightarrow h B | \text{£}$$

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

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

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

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29. Consider the grammar

$$A \rightarrow B C D$$

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

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

$$D \rightarrow A B | \epsilon$$

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

- h, g
- h
- h, g, i, \epsilon
- 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
- None of given

[Click Here For More Detail](#)

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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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but wanting to win is  
everything.....  
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