



Department of Computer Science and Engineering

CS8602 Compiler Design

Unit I - MCQ Bank

1. What kind of programming language are used by the Programmer?

- A. Low-level Language
- B. High-Level Language**
- C. Decimal-Format
- D. Middle-Level Language

Answer: (B)

2. Which program accepts the high-level language and converts it into assembly language?

- A. Interpreter
- B. Linker
- C. Assembler
- D. Compiler**

Answer: (D)

3. Does the compiler program translate the whole source code in one step?

- A. No
- B. Depends on the Compiler
- C. Don't Know
- D. Yes**

Answer: (D)

4. Which of the following file is an output of the assembler?

- A. Program file
- B. Object file**
- C. Data File
- D. Task File

Answer: (B)

5. Which tool is used for grouping of characters in tokens in the compiler?

- A. Parser
- B. Code optimizer
- C. Code generator
- D. Scanner**

Answer: (D)

6. What is the linker?

- A. It is always used before the program execution.
- B. It is required to create the load module.**
- C. It is the same as the loader
- D. None of the above

Answer: (B)

7. What is the output of lexical analyzer?

- A. A set of RE
- B. Syntax Tree**

C. Set of Tokens

D. String Character

Answer: (C)

8. The action of parsing the source program into proper syntactic classes is called _____

A. Syntax Analysis

B. Lexical Analysis

C. Interpretation analysis

D. General Syntax Analysis

Answer: (B)

9. Which symbol table implementation is based on the property of locality of reference?

A. Linear list

B. Search tree

C. Hash Table

D. Self-Organization

Answer: (C)

10. What is an Object program?

A. Program written in machine language

B. Program to be translated into machine language

C. Translation of high-level language into machine language

D. None of the mentioned

Answer: (C)

11. Which concept of FSA is used in the compiler?

A. Lexical analysis

B. Parser

C. Code generation

D. Code optimization

Answer: (A)

12. Which concept of grammar is used in the compiler?

- A. Lexical analysis
- B. Parser**
- C. Code generation
- D. Code optimization

Answer: (B)

13. Which of the following are Lexemes?

- A. Identifiers
- B. Constants
- C. Keywords
- D. All of the mentioned**

Answer: (D)

14. What constitutes the stages of the compilation process?

- A. Feasibility study, system, design, and testing
- B. Implementation and documentation
- C. Lexical analysis, syntax, Analysis and code generation**
- D. None of the mentioned

Answer: (C)

15. The lexical analyzer takes _____ as input and produces a stream of _____ as output.

- A. Source program, tokens**
- B. Token, source program
- C. Either of the two
- D. None of the mentioned

Answer: (A)

16. A compiler program written in a high level language is called _____

- A. Source Program**
- B. Object Program
- C. Machine Language Program
- D. None of the mentioned

Answer: (A)

17. System program such a compiler are designed so that they are _____

- A. Re-enterable**
- B. Non-Usable
- C. Serially usable
- D. None of the mentioned

Answer: (A)

18. Which of the following is not a feature of compiler?

- A. Scan the entire program first and translate into machine code
- B. To remove syntax errors
- C. Slow for debugging
- D. Execution time is more**

Answer: (D)

19. A programmer by mistakes writes a program to multiply two numbers instead of dividing them, how can this error be detected?

- A. Compiler
- B. Interpreter
- C. Compiler or interpreter
- D. None of the mentioned**

Answer: (D)

20. The process of forming tokens from an input stream of characters is called _____

- A. Liberalisation
- B. Characterisation
- C. Tokenization**
- D. None of the mentioned

Answer: (C)

21. When expression $\text{sum}=3+2$ is tokenized then what is the token category of 3?

- A. Identifier
- B. Assignment operator
- C. Integer Literal**
- D. Addition Operator

Answer: (C)

22. Which grammar defines Lexical Syntax?

- A. Regular Grammar
- B. Syntactic Grammar
- C. Context free Grammar
- D. Lexical Grammar**

Answer: (D)

23. Two Important lexical categories are _____

- A. White Space
- B. Comment
- C. None of the mentioned
- D. White Space & Comments**

Answer: (D)

24. Output file of Lex is _____ the input file is Myfile.

- A. Myfile.e
- B. Myfile.yy.c**

- C. Myfile.lex
- D. Myfile.obj

Answer: (B)

25. The process of assigning load addresses to the various parts of the program and adjusting the code and data in the program to reflect the assigned addresses is called?

- A. Assembly
- B. Parsing
- C. Relocation
- D. Symbol resolute

Answer: (C)