

Compiler Design (CA-3 Exam) Total points 25/25 ?

Subject Code: PECIT601A

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✓ 1. What is a compiler? *

1/1

- ☒ a) system program that converts instructions to machine language ✓
- ☐ b) system program that converts machine language to high-level language
- ☐ c) system program that writes instructions to perform
- ☐ d) None of the mentioned



✓ 2. Which of the following is a stage of compiler design? *

1/1

- ☐ a) Semantic analysis
- ☐ b) Intermediate code generator
- ☐ c) Code generator
- ☒ d) All of the mentioned



✓ 3. What is the use of a symbol table in compiler design? *

1/1

- ☐ a) Finding name's scope
- ☐ b) Type checking
- ☐ c) Keeping all of the names of all entities in one place
- ☒ d) All of the mentioned



✓ 4. Which of the following error can a compiler check? *

1/1

- ☒ a) Syntax Error
- ☐ b) Logical Error
- ☐ c) Both Logical and Syntax Error
- ☐ d) Compiler cannot check errors



✓ 5. A programmer, writes a program to multiply two numbers instead of dividing them by mistake, how can this error be detected? *1/1

- ☐ a) Compiler or interpreter
- ☐ b) Compiler only
- ☐ c) Interpreter only
- ☒ d) None of the mentioned



✓ 6. Who is responsible for the creation of the symbol table? * 1/1

- ☐ a) Assembler
- ☒ b) Compiler
- ☐ c) Interpreter
- ☐ d) All of the mentioned



✓ 7. Which of the following is known as a compiler for a high-level language *1/1 that runs on one machine and produces code for a different machine?

- ☒ a) Cross compiler
- ☐ b) Multipass compiler
- ☐ c) Optimizing compiler
- ☐ d) One pass compiler



✓ 8. Which of the following is a system program that integrates a program's *1/1
individually compiled modules into a form that can be executed?

- ☐ a) Interpreter
- ☐ b) Assembler
- ☐ c) Compiler
- ☒ d) Linking Loader



✓ 9. Which of the following is a definition of compiler? *

1/1

- ☒ a) Acceptance of a program written in a high-level language and produces an object program
- ☐ b) Program is put into memory and executes it
- ☐ c) Translation of assembly language into machine language
- ☐ d) None of the mentioned



✓ 10. Which of the following phase of the compiler is Syntax Analysis? *

1/1

- ☒ a) Second
- ☐ b) Third
- ☐ c) First
- ☐ d) All of the mentioned



✓ 11. Which of the following concept of FSA is used in the compiler? * 1/1

- ☐ a) Code optimization
- ☐ b) Code generation
- ☒ c) Lexical analysis
- ☐ d) Parser



✓ 12. Which of the following is a part of a compiler that takes as input a stream of characters and produces as output a stream of words along with their associated syntactic categories? *1/1

- ☐ a) Optimizer
- ☒ b) Scanner
- ☐ c) Parser
- ☐ d) None of the mentioned



✓ 13. Let $L1 = \{w \in \{0,1\}^* \mid w \text{ has at least as many occurrences of } (110)\text{'s as } (011)\text{'s}\}$. 1/1
Let $L2 = \{w \in \{0,1\}^* \mid w \text{ has at least as many occurrences of } (000)\text{'s as } (111)\text{'s}\}$.
Which of the following is correct?

- ☐ a) L2 is regular
- ☐ b) L1 and L2 are regular
- ☒ c) L1 is regular but not L2 ✓
- ☐ d) None of them are regular

✓ 14. What is CFG? 1/1

- ☐ a) Regular Expression
- ☒ b) Compiler ✓
- ☐ c) Language expression
- ☐ d) All of the mentioned



✓ 15. Which of the following is a correct statement? *1/1

- I. For some programming languages, there are parsing algorithms with an $O(3)$ complexity.
- II. A recursive programming language can be constructed with static storage allocation.
- III. In the context of bottom-up parsing, no L-attributed definition can be evaluated.
- IV. Code-improvement modifications can be carried out at both the intermediate and source code levels.

- ☐ a) I and III
- ☒ b) I and IV
- ☐ c) I, II and IV
- ☐ d) I, II, III and IV



✓ 16. Which of the following is correct regarding an optimizer Compiler? 1/1

- ☐ a) Optimize the code
- ☐ b) Is optimized to occupy less space
- ☐ c) Both of the mentioned
- ☒ d) None of the mentioned



✓ 17. Which of the following error can Compiler diagnose? *

1/1

- ☐ a) Logical errors only
- ☐ b) Grammatical and logical errors
- ☒ c) Grammatical errors only
- ☐ d) All of the mentioned

✓

✓

1/1

18. In which of the following phase of the compiler is Lexical Analyser?

- ☐ a) Second
- ☐ b) Third
- ☒ c) First
- ☐ d) All of the mentioned

✓

✓ 19. Which of the following does an address code involve?

1/1

- ☐ a) No unary operators
- ☐ b) Exactly 3 address
- ☐ c) At most Three address
- ☒ d) None of the mentioned

✓



✓ 20. An object module for a group of programs that were compiled separately is handed to a linker. Which of the following about an object module isn't true? 1/1

- ☐ a) Relocation bits
- ☐ b) Names and locations of all external symbols defined in the object module
- ☒ c) Absolute addresses of internal symbols ✓
- ☐ d) Object code

✓ 21. Characters are grouped into tokens in which of the following phase of the compiler design? *1/1

- ☐ a) It reduces the cycle time of an instruction
- ☒ b) It increases the throughput of the processor ✓
- ☐ c) It increases the latency of the processor
- ☐ d) It decreases the number of instructions executed per cycle

✓ 22. Why Generation of intermediate code based on an abstract machine model is useful in compilers? *1/1

- ☐ a) Writing for intermediate code generation
- ☐ b) Portability of the front end of the compiler
- ☒ c) Implementation of lexical analysis and syntax analysis is made easier ✓
- ☐ d) All of the mentioned



✓ 23. Why System program such as compiler are designed? *

1/1

- ☐ a) They are Serially usable
- ☒ b) They are Re-enterable
- ☐ c) They are Nonreusable
- ☐ d) All of the mentioned



✓ 24. Which of the following technique is used for building cross compilers for other machines? 1/1

- ☒ a) Canadian Cross
- ☐ b) Mexican Cross
- ☐ c) X-cross
- ☐ d) Brazilian Cross



✓ 25. Which of the following can detect an error if a programmer by mistake writes multiplication instead of division? *1/1

- ☐ a) Interpreter
- ☐ b) Compiler or interpreter test
- ☐ c) Compiler
- ☒ d) None of the mentioned



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