

Online Examinations (Even Sem/Part-I/Part-II Examinations 2020 - 2021)

Course Name - --Compiler Design

Course Code - PCC-CS601

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Answer all the questions. Each question carry one mark.

9. 1. A grammar that produces more than one parse tree for some sentence is called as

Mark only one oval.

- Ambiguous
- Unambiguous
- Regular
- All of these

10. 2. Lexical analysis is about breaking a sequence of characters into

Mark only one oval.

- Groups
- Packets
- Lines
- Tokens

11. 3. _____ is the most general phase structured grammar.

Mark only one oval.

- Context sensitive
- Regular
- Context free
- All of these

12. 4. Compiler translates the source code to

Mark only one oval.

- Executable code
- Machine code
- Binary code
- Machine code & Binary code

13. 5. How many parts of compiler are there?

Mark only one oval.

1

2

4

8

14. 6. _____ is considered as a sequence of characters in a token.

Mark only one oval.

Mexeme

Lexeme

Pattern

Texeme

15. 7. What is the name of the process that determining whether a string of tokens can be generated by a grammar?

Mark only one oval.

Analysing

Recognizing

Translating

Parsing

16. 8. The role of the preprocessor is

Mark only one oval.

- produce input to compilers
- produce output data
- produce output to compilers
- none of these

17. 9. The regular expression $1^*(01^*01^*)^*$ denotes

Mark only one oval.

- set of all strings of 0's and 1's with even number of 0's
- set of all strings of 0's and 1's
- set of all strings of 0's and 1's with odd number of 1's
- none of these

18. 10. If x is a terminal, then $FIRST(x)$ is

Mark only one oval.

- ϵ
- $\{x\}$
- x^*
- none of these

19. 11. The regular expression $a^+ = ?$

Mark only one oval.

- {a,aa,aaa,...}
- { ϵ ,a,aa,aaa,...}
- { ϵ ,a}
- None of these

20. 12. The set of all strings over $\Sigma = \{a,b\}$ in which all strings having bbbb as substring is

Mark only one oval.

- $(a+b)^* bbbb (a+b)^*$
- $(a+b)^* bb (a+b)^* bb$
- $bbb(a+b)^*$
- $bb (a+b)^*$

21. 13. The set of all strings over $\Sigma = \{a,b\}$ in which a single a is followed by any number of b's a single b followed by any number of a's is

Mark only one oval.

- $ab^* + ba^*$
- ab^*ba^*
- $a^*b + b^*a$
- none of these

22. 14. Which of the following error will not be detected by the compiler?

Mark only one oval.

- Lexical error
- Syntactic error
- Semantic error
- Logical error

23. 15. YACC builds up

Mark only one oval.

- SLR parsing table
- LALR parsing table
- Canonical LR parsing table
- None of these

24. 16. The edges in flow graph whose heads dominate their tails are called

Mark only one oval.

- Back edges
- Front edges
- Flow edges
- None of these

25. 17. Parse tree is generated in the phase of

Mark only one oval.

- Syntax analysis
- Semantic analysis
- Code optimization
- Intermediate code optimization

26. 18. White spaces and tabs are removed in

Mark only one oval.

- Semantic analysis
- Lexical analysis
- Syntax analysis
- None of these

27. 19. Left factoring guarantees

Mark only one oval.

- Error free target code
- Cycle free parse tree
- Not occurring of backtracking
- Correct LL(1) parse table

28. 20. If the attribute of the parent node depends on its children, then its attributes are called

Mark only one oval.

- TAC
- Synthesized
- Inherited
- Directed

29. 21. What is a process of finding a parse tree for a string of tokens

Mark only one oval.

- Tokenizing
- Recognizing
- Analysing
- Parsing

30. 22. Given the grammar $S \rightarrow ABc$, $A \rightarrow a|€$, $B \rightarrow b|€$ FOLLOW(A) is the set

Mark only one oval.

- {\$}
- {b}
- {b,c}
- {a,b,c}

31. 23. A grammar that produces one parse tree for some sentence is called as

Mark only one oval.

- Ambiguous
- Unambiguous
- Regular
- All of these

32. 24. $S \rightarrow AB$, $A \rightarrow a$, $B \rightarrow b$ To check whether the string "ab" is the language of the above grammar (using shift-reduce parser) we need at least

Mark only one oval.

- 3 shift 3 reduces
- 2 shift 3 reduces
- 2 shift 2 reduces
- 3 shift 2 reduces

33. 25. The grammar $S \rightarrow ab$ is given. FOLLOW(S)=?

Mark only one oval.

- {a}
- {b}
- {\$}
- {a,\$}

34. 26. The intersection of a regular language and a context free language is

Mark only one oval.

- always a regular language
- always a context free language
- always a context sensitive language
- None of these

35. 27. The following production of a regular grammar generates a language L. $S \rightarrow aS \mid bS \mid a \mid b$ The regular expression for L is

Mark only one oval.

- A+b
- (a+b)*
- (a+b)(a+b)*
- (aa+bb)a*

36. 28. Which one is a lexer generator

Mark only one oval.

- ANTLR
- DRASTAR
- FLEX
- All of these

37. 29. The output of the lexical analyzer is

Mark only one oval.

- Stream of tokens
- Machine code
- Intermediate code
- Parse tree

38. 30. Which of the following identity is true?

Mark only one oval.

- $\epsilon + RR^* = R^* = \epsilon + R^*R$
- $(R_1R_2)^*R_1 = R_1(R_2R_1)^*$
- $R^*R^* = R^*$
- All of these

39. 31. The 1 in the parenthesis in LL(1) parsing means

Mark only one oval.

- left to right scanning
- left to right mapping
- Both a and b
- number of look ahead character

40. 32. € never contains in

Mark only one oval.

- FIRST
- FOLLOW
- Both a and b
- None of these

41. 33. LR parser uses

Mark only one oval.

- Stack
- Queue
- Linked List
- None of these

42. 34. If L1 and L2 are regular languages is/are also regular language(s).

Mark only one oval.

- L1 + L2
- L1 L2
- L1
- All of these

43. 35. Which data structure is mainly used during shift-reduce parsing?

Mark only one oval.

- pointers
- arrays
- stacks
- queues

44. 36. The optimization which avoids test at every iteration is

Mark only one oval.

- loop unrolling
- loop jamming
- constant folding
- none of these

45. 37. The peep-hole optimization is

Mark only one oval.

- Strength Reduction
- constant folding
- Strength Reduction & constant folding
- None of this

46. 38. The objective of peephole optimization is

Mark only one oval.

- To improve performance
- To reduce memory footprint
- To reduce code size
- All of these

47. 39. A compiler that runs on one machine and produces code for a different machine is called

Mark only one oval.

- Cross compilation
- One pass compilation
- 2 pass compilation
- None of these

48. 40. Which of the following is not an intermediate code form?

Mark only one oval.

- Quadruples
- Triples
- Abstract syntax tree
- Indirect triples

49. 41. Which table is a permanent database that has an entry for each terminal symbol?

Mark only one oval.

- Reductions
- Identifier table
- Literal table
- Terminal table

50. 42. Synthesized attribute can be easily simulated by a

Mark only one oval.

- LR grammar
- LL grammar
- Ambiguous grammar
- None of these

51. 43. Which of the following techniques is used to replace run-time computations by compile time computations?

Mark only one oval.

- Constant folding
- Code hoisting
- Pee phole optimization
- Invariant computation

52. 44. A compiler is preferable to an interpreter because

Mark only one oval.

- Debugging can be faster and easier
- If one changes a statement, only that statement needs re-compilation
- It is much helpful in the initial stages of program development
- It can generate stand alone programs that often take less time for execution

53. 45. The linker _____

Mark only one oval.

- Is similar to interpreter
- Uses source code as its input
- Is required to create a load module
- None of the mentioned

54. 46. A language L from a grammar $G = \{ VN, \Sigma, P, S \}$ is?

Mark only one oval.

- Set of symbols over VN
- Set of symbols over Σ
- Set of symbols over P
- Set of symbols over S

55. 47. The process manager has to keep track of _____

Mark only one oval.

- Status of each program
- Information to a programmer using the system
- Status of each program & Information to a programmer using the system
- None of the mentioned

56. 48. Pass I _____

Mark only one oval.

- Assign address to all statements
- Save the values assigned to all labels for use in pass 2
- Perform some processing
- All of the mentioned

57. 49. Syntax Analyser is also known as _____

Mark only one oval.

- Hierarchical Analysis
- Hierarchical Parsing
- None of the mentioned
- Hierarchical Analysis & Parsing

58. 50. A grammar for a programming language is a formal description of

Mark only one oval.

- Syntax
- Semantics
- Structure
- Library

59. 51. Choose the correct statement.

Mark only one oval.

- CFG is not LR
- Ambiguous Grammar can never be LR
- CFG is not LR & Ambiguous Grammar can never be LR
- None of the mentioned

60. 52. Which one of the following is a top-down parser?

Mark only one oval.

- Recursive descent parser
- Operator precedence parser
- An LR(k) parser
- An LALR(k) parser

61. 53. The grammar $A \rightarrow AA \mid (A) \mid e$ is not suitable for predictive-parsing because the grammar is?

Mark only one oval.

- Ambiguous
- Left recursive
- Right recursive
- An operator grammar

62. 54. Which of the following suffices to convert an arbitrary CFG to an LL(1) grammar?

Mark only one oval.

- Removing left Recursive alone
- Factoring the grammar alone
- Along with removing left recursion we also perform the factoring of the grammar
- None of the mentioned

63. 55. Assume statements S1 and S2 defined as: S1: $L_2 - L_1$ is recursive enumerable where L_1 and L_2 are recursive and recursive enumerable respectively. S2: The set of all Turing machines is countable. Which of the following is true?

Mark only one oval.

- S1 is correct and S2 is not correct
- Both S1 and S2 are correct
- Both S1 and S2 are not correct
- S1 is not correct and S2 is correct

64. 56. A context free language is called ambiguous if _____

Mark only one oval.

- It has 2 or more left derivations for some terminal string $w \in L(G)$
- It has 2 or more right derivations for some terminal string $w \in L(G)$
- It has 2 or more left & right derivations for some terminal string $w \in L(G)$
- None of the mentioned

65. 57. Which of the following statement is false?

Mark only one oval.

- The CFG can be converted to Chomsky normal form
- The CFG can be converted to Greibach normal form
- CFG is accepted by pushdown automata
- None of the mentioned

66. 58. The context free grammar $S \rightarrow SS \mid OS1 \mid 1SO \mid \epsilon$ generates _____

Mark only one oval.

- Equal number of 0's and 1's
- Unequal number of 0's and 1's
- Number of 0's followed by any number of 1's
- None of the mentioned

67. 59. Push down automata accepts which language?

Mark only one oval.

- Push down automata accepts which language?
- Context free language
- Recursive language
- None of the mentioned

68. 60. Which of these does not belong to CFG?

Mark only one oval.

- Terminal Symbol
- Non terminal Symbol
- Start symbol
- End Symbol

69. 61. Compiler can diagnose _____

Mark only one oval.

- Grammatical errors only
- Logical errors only
- Grammatical and logical errors
- None of the mentioned

70. 62. A system program that set-up an executable program in the main memory ready for execution is?

Mark only one oval.

- Assembler
- Linker
- Loader
- Text editor

71. 63. The computer language generally translated to pseudocode is _____

Mark only one oval.

- Assembly
- Machine
- Pascal
- FORTRAN

72. 64. The best way to compare the different implementations of symbol table is to compare the time required to _____

Mark only one oval.

- Add a new name
- Make an enquiry
- Add a new name and make an enquiry
- All of the mentioned

73. 65. Relocation bits used by relocating loader are specified by _____

Mark only one oval.

- Relocating loader itself
- Linker
- Assembler
- Macro processor

74. 66. Which Type of Grammar is it? $S \rightarrow Aa$ $A \rightarrow Aab \mid \lambda$

Mark only one oval.

- Right Linear
- Left Linear
- None of the mentioned
- Right & Left Linear

75. 67. Consider a program P that consists of two source modules M1 (contains reference to a function defined in M2) and M2 contained in two different files.

Mark only one oval.

- Edit time
- Compile time
- Link time
- Load time

76. 68. Which of the following statements is false?

Mark only one oval.

- Left as well as right most derivations can be in Unambiguous grammar
- An LL (1) parser is a top-down parser
- LALR is more powerful than SLR
- Ambiguous grammar can't be LR (k)

77. 69. What is CFG?

Mark only one oval.

- Compiler
- A language expression
- Regular Expression
- None of the mentioned

78. 70. Transition of finite automata is _____

Mark only one oval.

- Finite Diagram
- State Diagram
- Node Diagram
- E-R Diagram

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