



Govt. College UNIVERSITY, FAISALABAD
External Semester Examinations Fall-2023-2024

Degree: BS-CS
Part: Objective

Semester: 7th
Course Title: Compiler Construction

Marks: 20
Course Code: CSI-501
Time allowed: 30 Minutes

- Q1. Encircle the correct option.
- Which concept of grammar is used in the compiler? a) Lexical analysis b) Parser c) Code generation d) Code optimization
 - Which of the following are Lexemes? a) Identifiers b) Constants c) Keywords d) All of the mentioned
 - A language L from a grammar $G = (V, N, E, P, S)$ is? a) Set of symbols over $V \cup N$ b) Set of symbols over E c) Set of symbols over P d) Set of symbols over S
 - Maximum number of states of a DFA converted from an NFA with n states is? a) n b) n^2 c) $2n$ d) None
 - What are the basic limitations of finite state machines? a) It cannot remember arbitrarily large amount of information b) It cannot remember state transitions c) It cannot remember grammar for a language d) It cannot remember language generated from a grammar
 - Characters are grouped into tokens in which of the following phase of the compiler design? a) Code generator b) Lexical analyzer c) Parser d) Code optimization
 - Assume that the LR parser for a grammar G has $n1$ states and the LALR parser for G has $n2$ states. a) $n1 < n2$ b) $n1 = n2$ c) $n1 > n2$ d) none
 - Which of the following derivations does a top-down parser use while parsing an input string? a) Leftmost derivation b) Leftmost derivation in reverse c) Rightmost derivation d) Rightmost derivation in reverse
 - Which of the following statements is false? a) LR as well as right most derivations can be in Unambiguous grammar b) An LL(1) parser is a top-down parser c) LALR is more powerful than LR d) Ambiguous grammar can't be LR (k)
 - What is the output of lexical analyzer? a) A set of RE b) Syntax Tree c) Set of Tokens d) String Character
 - Which of the following is a stage of compiler design? a) Semantic analysis b) Intermediate code generator c) Code generator d) All of the mentioned
 - Which of the following error can a compiler check? a) Syntax Error b) Logical Error c) Both Logical and Syntax Error d) Compiler cannot check errors
 - Which of the following concept of FSA is used in the compiler? a) Code optimization b) Code generation c) Lexical analysis d) Parser
 - What is CFG? a) Regular Expression b) Compiler c) Language expression d) All of the mentioned
 - In which of the following phase of the compiler is Lexical Analyzer. a) Second b) Third c) First d) All of the mentioned
 - A finite automata recognizes a) Any Language b) Context Sensitive Language c) Context Free Language d) Regular Language
 - Which one of the following is a top-down parser? a) Recursive descent parser b) Operator precedence parser c) An LR(k) parser d) An LALR(k) parser
 - Which of these is also known as look-head LR parser? a) SLR b) LR c) LRL d) None
 - What is the output of lexical analyzer? a) A set of RE b) Syntax Tree c) Set of Tokens d) String Character
 - In which of the following phase of the compiler is Lexical Analyzer. a) Second b) Third c) First d) All of the mentioned



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Time allowed: 2:30 Hours

Note: Attempt all questions. All the questions carry equal marks.

Q.2. Construct the CLR parsing table of the following Grammar.

$S \rightarrow AA$

$A \rightarrow aA \mid b$

Q.3. Briefly Tell about different phases of Compiler. Explain each Phase.

Q.4. Make the LL(1) Parsing Table of the following Grammar.

$E \rightarrow TE'$

$E' \rightarrow \epsilon \mid TE'$

$T \rightarrow FT'$

$T' \rightarrow \epsilon \mid FT'$

$F \rightarrow id \mid (E)$

Q.5. Briefly Tell about these concepts: Ambiguous and Unambiguous Grammar with examples.

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