

Q1.	Differentiate between a Compiler and Interpreter? Give examples of Interpreted programming languages	(5)
Q2.	Draw a complete labeled diagram of Java Interpreter System	(5)
Q3.	Draw the structure of a Compiler. Name each phase. Define the functionality of Lexical analyzer, Syntax analyzer and Semantic analyzer Consider the following source code: <i>force = 65 * acceleration</i> where <i>force</i> and <i>acceleration</i> are floats, and <i>65</i> is integer Construct the lexemes and tokens, Syntax tree, and Semantic tree	(5)
Q4.	(a) Define Context Free Grammar. Give one example (b) Define Abstract Syntax Tree. Give one example	(5)
Q5.	Describe the role of the Three-pass Compiler and Optimizer. Draw their diagrams	(5)
Q6.	(a) Define Regular Expression. Give two examples (b) Define Finite Automata. Give two examples	(5)

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