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[5M]

UNIT-1

1a) Explain how is the order of evaluation of attributes determined for the tree of a given grammar. [5M]	
b) Discuss in detail about the attribute grammars	[5M]
2 a)Explain about lexical analysis.	[5M]
b)Write short notes on context free grammar	[5m]

3. a) Give an example of left recursive rule in CFG. What is the significance of left Recursive rule? [5M]

b)How do you describe the meanings of programs using dynamic semantics?	
4a)Explain different phases of compilation.[5M]	
b)Write BNF notation for 'for loop', 'if-else condition' and structure definition in C. [5M]	
5a) Explain Top down parsing[5M]	
b) Explain bottom up parsing [5M]	

UNIT-2

1a) What is a variable? What are the attributes of a variable? Elaborate on address of a variable [5M]	
b) Explain in detail about overloaded operators	[5M]
2a) Explain in detail arrays, indices, subscript bindings, and array categories	[5M]
b) Define unconditional branching. What are the problems with unconditional branching	[5M]
3a) Explain various primitive data types with suitable examples.[5]	M]
b) Discuss about type-checking and control structures? [5]	M]

4a) Explain the conditional statements and its implementation with examples. [5M]b)Explain the scope and lifetime of variables. Illustrate when they would coincide and when they don't. [5M]

5a) Is static binding more reliable or dynamic binding? Explain why.[5M]b)Present the classification of arrays based on subscript binding. Give programming examples.[5M]

UNIT-3

1a)Define a function. What are the design issues for functions? Explain b)Explain how subprogram is overloaded? Give examples.	[5M] [5M]
2. a)Explain how subprograms names are passed as parameters.b)Define sub program. What are the distinct categories of Subprograms?	[5M] [5M]
3.a)Define a subprogram. Write the semantics of call and return of a subprogram b)Discuss about nested subprograms with examples.	[5M] [5M]

4.a)Discuss how generic methods are implemented with suitable examples. [5M]

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e importance Crynamic Scoping with an example. [5M] 5.a)Discuss about pass-by-result and pass how a First Ridinker compassing methods. First Rianker commung example for each. [5M]

b)Discuss about deep access and shallow access methods for implementing dynamic scoping [5M]

UNIT-4

1 a)Discuss the design issues of Exception Handling.	[5M]
b)Explain in detail abstract data types in java with examples.	[5M]
2 a)Compare and contrast the cooperation synchronization and competition synchronization	conization in message passing.
	[5M]
b)Explain the basic concepts of exception handling	[5M]
3a) How message passing is implemented in Ada? Explain with examples.	[5M]
b) What is an event? How the events are handled in various OOP languages.	[5M]
4a) Define a Thread. How are threads different from processes? Explain java threa	ids with examples [5M]
b) Define monitor. Explain how cooperation synchronization and competition sync using monitors	chronization are implemented [5M]

5a) Discuss how producer consumer problem can be solved using concurrency in Java.	[5M]
b)Discuss about exception handling in C++.	[5M]

UNIT-5

1a)Write about functional forms in LISP.	[5M]
b)Give a comparison between ML and Haskell	[5M]
2a)How ML is different from other functional programming languages?`	[5M]
b)Why were imperative features added to most dialects of LISP?	[5M]
3a)Give comparison of Functional and Imperative Languages	[5M]
b)Explain the control structure of a PROLOG program	[5M]
4a)Explain about scheme functional programming language.	[5M]
b)Discuss how Haskell differs from ML	[5M]
5a)Explain the principles of ML?	[5M]
b)Explain about fundamentals of FPL?	[5M]
UNIT-6	

UNIT-6

1 a)Explain about Logic programming	[5M]
b)Discuss in brief about the Basic elements of Prolog.	[5M]
2 a)Discuss about basic elements of Prolog	[5M]
b)Explain different types of propositions present in logic programming.	[5M]
3 a)Discuss Terms and Goal statements in Prolog with examples	[5M]
b)How PROLOG is different from other logic programming languages? Give an example for	each feature
	[5M]
4 a)Explain Prolog interfacing process.	[5M]
b)Explain about the inferencing process of Prolog	[5M]
5 a)List and explain the applications of logic programming.	[5M]

5 a)List and explain the applications of logic programming. b)Discuss about basic elements of Prolog

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[5M]