

QUESTION BANK

1. Why is it useful for a programmer to have some background in language design, even though he or she may never actually design a programming language
2. 2. How can knowledge of programming language characteristics benefit the whole computing community?
3. 3. What language was the first to support the three fundamental features of object-oriented programming
4. What are the three fundamental features of an object-oriented programming language
5. Define Syntax and Semantics.
6. Who are language descriptions for?
7. Describe the operation of a general language generator.
8. Describe the operation of a general language recognizer.
9. What is the difference between a sentence and a sentential form?
10. What the primary use of attribute grammars?
11. Describe the two levels of uses of operational semantics.
12. On what branch of math is axiomatic semantics based?
13. What is the use of the WP function? Why it is called a predicate transformer?
14. Give the difference between total correctness and partial correctness
15. What are the design issues for names?
16. What is an Alias
17. What is the l value of a variable?
18. What is the r value .What is Block
19. What are the advantages of named constant?
20. What is Bottom up parsing
21. What are the formal methods of describing the syntax? Explain the Grammar.
22. What are the rules of EBNF. Explain in detail the advantage and disadvantage of EBNF .Compare the BNF with EBNF
23. Explain Dynamic semantics

24. What is Parsing problem? What are the two parsing algorithms What are the complexities of Parsing process
25. What is Lexical Analyzer .What are the approaches for building a lexical analyzer. Implement using an example using state diagram
26. Explain Attribute Grammar
27. Explain life time .What is Referencing environment 8. Explain Semantics .What are the various methods
28. What is recursive Parsing
29. What is bottom Parsing .
30. What are the advantages and disadvantages of decimal data types?
31. What are the design issues for character string types?
32. Describe the three string length option.
33. Describe ordinal, enumeration, and subrange types.
34. What are the advantages of user-defined enumeration types?
35. What are the design issues for arrays?
- 36.. Define row major order and column major order.
37. Define fully qualified and elliptical references to fields in records.
38. Define union, free union and discriminated union.
39. What are the design issues for unions?
40. What is a compatible type?
41. Define type error.
42. Define strongly typed.
43. What is a ternary operator?
44. What is a prefix operator?
45. What operator usually has right associativity?
46. What is no associative operator?
47. What is a conditional expression?
48. What is short-circuiting evaluation?
49. What is cast?
50. Explain briefly about scope and its lifetime
51. What is binding .
52. How the variables are binded. What are the various methods of binding
53. Explain in detail the Pointers and References

54. Explain in detail the attribute grammar
55. Explain Arithmetic expression? Explain with example Relational and Boolean Expressions.
56. What is meant by data type ?What are the various Primitive Data type .Evaluate the various data types
57. Explain briefly about control Structures
58. Explain Overloaded Operators
59. What is Selection ?Explain various branching Statements
60. What are the various assignments statements