Predicted Question Paper

Subject: Complier Design **Semester:** 5 **College:** bit

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1. Find the minimum state DFA for the regular expression ab (a/b)*abb.

Repeated: 2 times

Modules: Unit-I

Marks: 8

2. Write short notes on i. Compiler writing tools ii. Role of Lexical Analyzer

Repeated: 2 times

Modules: Unit-I

Marks: 8

3. Construct minimum state DFA for regular expression (0 + 1) * 00 + 01.

Repeated: 2 times

Modules: Unit-I

Marks: 8

4. Differentiate between top down parsing and bottom up parsing?

Repeated: 2 times

Modules: Unit-II

Marks: 4

5. Write the Translation scheme to produce three- address code for assignment statements

Repeated: 2 times

Modules: Unit-III

Marks: 4, 8

6. Using the given grammar, write the syntax directed definitions to evaluate an expression. Construct the annotated parse tree for the sentence 2+3*7. E→E+T | T T→T*F | F F→(E) | num

Repeated: 2 times

Modules: Unit-III

Marks: 8

7. What is activation record? Explain different fields in the activation record.

Repeated: 3 times

Modules: Unit-IV

Marks: 8

8. Explain Stack, Static and Heap allocation strategies.

Repeated: 2 times

Modules: Unit-IV

Marks: 8, 4

9. What is the use of symbol table? Explain different ways to implement symbol table and explain various fields of symbol table.

Repeated: 3 times

Modules: Unit-IV

Marks: 8

10. Define the term loop optimization.

Repeated: 2 times

Modules: Unit-V

Marks: 4

11. Explain in brief issues in the design the code generator.

Repeated: 2 times

Modules: Unit-V

Marks: 8

12. Discuss the major issues of code generation.

Repeated: 2 times

Modules: Unit-V

Marks: 8