Generated Question Set 2024

SUBJECT: Compiler Design

SUBJECT CODE: CD101

MARKS: 30

Question 1: 13 a) Derive LALR (1) parsing algorithm for following grammar S?AS/b A?SA/a b) Design a type checker for simple arithmetic operations.

Marks: 9

Question 2: 3 Consider the context free grammar S ->aSbS | bSaS | ? Check whether the grammar is ambiguous or not

Marks: 3

Question 3: 8 Explain the main actions in a shift reduce parser

Marks: 3

Question 4: 14 a) Explain the syntax directed definition of a simple desk calculator . Explain operator grammar and operator precedence parsing

Marks: 9

Question 5: 11 What are L-attributed definition s and S-attributed definition s in a syntax directed translation scheme?

Marks: 3

Question 6: 4 What is Recursive Descent par sing? List the problems faced in designing such a parser.

Marks: 3