DOWNLOAD MIDTERM

PAST PAPERS BY WAQAR SIDDHU

More in PDF From

Dilawar Notes

Get All Solutions.

Question No : 21 of 26 Marks: 2 (Budgeted Time 4 Min)

Consider the following C++ function as an input to the Parser.

```
1. int* foo(int i, int j))
2. {
3. for(k=0; i j; )
4. fi( i > j )
```

Answer (Please click here to Add Answer)

Question No : 21 of 26 Marks: 2 (Budgeted Time 4 Min)

```
4. fi( i > j )
5. return j;
6. }
```

What is the syntactic error at line 4? How will Parser recognize this syntactic error?

Answer (Please click here to Add Answer)

Question No : 22 of 26 Marks: 2 (Budgeted Time 4 Min)

What is upper frontier with respect to discovering handles in shift-reduce parsing?

Answer (Please click here to Add Answer)

Question No : 23 of 26 Marks: 3 (Budgeted Time 6 Min)

Consider the following C++ function as an input to the Parser.

```
int* foo(int i, int j)
{
for(k=0; i < j; j++ )
if( i < j-2 )
```

Answer (Please click here to Add Answer)

Question No : 23 of 26 Marks: 3 (Budgeted Time 6 Min)

```
if( i < j-2 )
sum = sum+i
return sum;
}
```

What will be the semantic errors reported by the Parser in the above code?

Answer (Please click here to Add Answer)

Question No : 24 of 26 Marks: 3 (Budgeted Time 6 Min)

Considering the following grammar, calculate the first set of non-terminals S, A and B.

$S \rightarrow AB$
$A \rightarrow a \mid \varepsilon$
$B \rightarrow b \mid \varepsilon$

Answer (Please click here to Add Answer)

Normal Arial 12 100%

Question No : 25 of 26 Marks: 5 (Budgeted Time 10 Min)

Consider the following grammar;

Statement → if expression then statement else statement
Statement → if expression then statement

You are required to provide an alternate production(s) so that it may become free from the backtracking.

Answer (Please click here to Add Answer)

Question No : 26 of 26 Marks: 5 (Budgeted Time 10 Min)

Considering the following grammar, reduce the string "abbcbcde" using Bottom-up parsing

S → aABe
A → Abc | b
B → d

Answer (Please click here to Add Answer)

Question No : 21 of 26 Marks: 2 (Budgeted Time 4 Min)

Write a regular expression for the language of all words that starts and ends with different letters.

Answer (Please click here to Add Answer)

Question No : 22 of 26 Marks: 2 (Budgeted Time 4 Min)

How linker plays an important role with respect to compiler construction?

Answer (Please click here to Add Answer)

Question No : 23 of 26 Marks: 3 (Budgeted Time 6 Min)

Can we call shift-reduce parsing as bottom up parsing? Justify your answer with reason.

Answer (Please click here to Add Answer)

Question No : 24 of 26 Marks: 3 (Budgeted Time 6 Min)

Considering the following grammar, calculate the first set of non-terminals S, A and B.

$S \rightarrow AB$
$A \rightarrow a \mid \varepsilon$
$B \rightarrow b \mid \varepsilon$

Answer (Please click here to Add Answer)

Question No : 25 of 26 Marks: 5 (Budgeted Time 10 Min)

Suppose that you are going to construct a compiler for a regular language and currently you are constructing a suitable predictive parsing from the grammar. If you have a production rule which is not clear to expand a non-terminal then how will you handle this situation and what will you name this procedure.

Answer (Please click here to Add Answer)

Question No : 26 of 26 Marks: 5 (Budgeted Time 10 Min)

Considering string "ab", show that the following grammar is ambiguous using parse trees. The ε below is epsilon.

$S \rightarrow A\,B\,A\,B$
$A \rightarrow a\,A \mid \varepsilon$
$B \rightarrow b\,B \mid \varepsilon$

Answer (Please click here to Add Answer)

Question No : 21 of 26 Marks: 2 (Budgeted Time 4 Min)

What is the role of parser generator with respect to compilers?

Answer (Please click here to Add Answer)

Question No : 22 of 26 Marks: 2 (Budgeted Time 4 Min)

Considering that the bottom-up parsing uses only two kinds of actions with stack to hold the content of the left string, which action pushes a terminal on the stack?

Answer (Please click here to Add Answer)

Question No : 23 of 26 Marks: 3 (Budgeted Time 6 Min)

How recursive descent parser is implemented using any Object Oriented language?

Answer (Please click here to Add Answer)

Question No : 24 of 26 Marks: 3 (Budgeted Time 6 Min)

Considering the following grammar, calculate the first set of non-terminals S, A and B.

$S \rightarrow AB$
$A \rightarrow a \mid \varepsilon$
$B \rightarrow b \mid \varepsilon$

Answer (Please click here to Add Answer)

Question No : 25 of 26 Marks: 5 (Budgeted Time 10 Min)

Suppose that you wrote a grammar for recognizing a regular expression and you found that this grammar is insufficient to evaluate arithmetic expression. If there is no notion of precedence order or implied order of evaluation then how will you change this grammar to evaluate the expression in correct order?

Answer (Please click here to Add Answer)

Question No : 26 of 26 Marks: 5 (Budgeted Time 10 Min)

Considering the following grammar, reduce the string "abbcbcde" using Bottom-up parsing

S → aABe
A → Abc | b
B → d

Answer (Please click here to Add Answer)