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Grade	**22.17** out of 30.00 (**74**%)

Question **1**
Correct
Mark 1.00 out of 1.00

What is significance to associate data type attribute to each Non-terminal ?

Select one:
- a. Both of these ✔
- b. To check program is semantically error free or not
- c. To check Programming construct is semantically error free or not

The correct answer is: Both of these

Question **2**
Correct
Mark 1.00 out of 1.00

Which of these is true about LR parsing?

Select one:
- a. It is still efficient
- b. None of the mentioned
- c. Is most general non-backtracking shift-reduce parsing and It is still efficient ✔
- d. Is most general non-backtracking shift-reduce parsing

The correct answer is: Is most general non-backtracking shift-reduce parsing and It is still efficient

Question **3**
Correct
Mark 1.00 out of 1.00

A form of recursive-descent parsing that does not require any back-tracking is known as?

Select one:
- a. non-predictive parsing
- b. recursive parsing
- c. non-recursive parsing.
- d. predictive parsing ✔

The correct answer is: predictive parsing

Question **4**

Incorrect

Mark 0.00 out of 1.00

A -> XYZ {Y.S = A.S, Y.S = X.S, Y.S = Z.S} is example of :

Select one:

- a. L – Attributed SDT ✖
- b. S – Attributed SDT
- c. None
- d. Both S attributed and L Attributed

The correct answer is: None

Question **5**

Correct

Mark 1.00 out of 1.00

In most programming languages the four arithmetic operators, addition, subtraction, multiplication, and division are left-associative.

Select one:

- True ✔
- False

The correct answer is 'True'.

Question **6**

Correct

Mark 1.00 out of 1.00

Which one of the following kinds of derivation is used by LR parsers?

Select one:

- a. Rightmost in reverse order ✔
- b. Leftmost in reverse order
- c. Rightmost
- d. Leftmost

The correct answer is: Rightmost in reverse order

Question **7**

Correct

Mark 1.00 out of 1.00

Select the definition related to term.

Pattern	is a description of the form that the lexemes of a token may take.	✔
Lexeme	is a sequence of characters in the source program that matches the pattern for a token	✔
Token	is a pair consisting of a name and an optional attribute value.	✔

The correct answer is: Pattern → is a description of the form that the lexemes of a token may take., Lexeme → is a sequence of characters in the source program that matches the pattern for a token, Token → is a pair consisting of a name and an optional attribute value.

Question **8**

Correct

Mark 1.00 out of 1.00

Which of the following grammar is LR(1)?

Select one:

- a. A->aAa,A->aAb,A->c
- b. both (A) and (B) ✔
- c. A->aAb,A->bAb,A->;a,A->b
- d. A->A+A,A->a

The correct answer is: both (A) and (B)

Question **9**

Incorrect

Mark 0.00 out of 1.00

A compiler is a program that can read a program in one language called as _____ and translate it into an equivalent program in another language.

Select one:

- a. machine language ✖
- b. source language
- c. target language

The correct answer is: source language

Question **10**

Correct

Mark 1.00 out of 1.00

Given the production rules of grammar
G1 : { S1->AB|aaB ; A->a|Aa ; B->b}
G2 : { S2-> aS2bS2|bS2aS2|lambda }

which of the following is correct statement?

Select one:

- a. G1 is ambiguous and G2 is not ambiguous
- b. G1 is not ambiguous and G2 is ambiguous
- c. G1 is not ambiguous and G2 is not ambigous
- d. G1 is ambiguous and G2 is ambiguous ✔

The correct answer is: G1 is ambiguous and G2 is ambiguous

Question **11**

Correct

Mark 1.00 out of 1.00

Consider the following grammar :

P -> xQRS

Q -> yz / z

R -> W / ε

S -> y

What is Follow(Q) ?

Select one:

- a. {W}
- b. {w,$}
- c. {w,y} ✔
- d. {R}

The correct answer is: {w,y}

Question **12**

Correct

Mark 1.00 out of 1.00

In a string of length n, how many of the following are there?

Prefixes	n+1	✔
Proper prefixes	n-1	✔
Suffixes	n+1	✔

The correct answer is: Prefixes → n+1, Proper prefixes → n-1, Suffixes → n+1

Question **13**

Incorrect

Mark 0.00 out of 1.00

Which of the following is/are the characteristics of peephole optimization?

Select one:

- a. Flow-of-control optimizations
- b. Algebraic simplifications
- c. Redundant-Instruction elimination ✖
- d. All of the these

The correct answer is: All of the these

Question **14**

Incorrect

Mark 0.00 out of 1.00

Check whether the following grammar is LL(1) or not?

S→aAbA/Ba

B→b/ϵ

A→aBb/ϵ

Select one:

- a. Not LL(1) ✖
- b. it is LR(1)
- c. Yes it is LL(1)
- d. Cant Decide

The correct answer is: Yes it is LL(1)

Question **15**

Correct

Mark 1.00 out of 1.00

In an implementation, activities from several phases may be grouped together into a pass that reads an input file and writes an output file.

Select one:

- True ✔
- False

The correct answer is 'True'.

Question **16**

Correct

Mark 1.00 out of 1.00

suppose a source program contains the assignment statement position = initial + rate * 60 then

Select one:

- a. position is a lexeme ✔
- b. none
- c. position is a pattern
- d. position is a token

The correct answer is: position is a lexeme

Question **17**

Partially correct

Mark 0.50 out of 1.00

Map appropriate Type Equivalance

C language considers two types are same if → They satisfy both Name Equivalance and Structural Equivalence ✖

Pascal language considers two types are same if → type name refers for them are same ✔

The correct answer is: C language considers two types are same if → they are structurally identical, Pascal language considers two types are same if → type name refers for them are same

Question **18**

Correct

Mark 1.00 out of 1.00

A bottom-up parser generates

Select one:

- a. Left-most derivation in reverse
- b. Right-most derivation in reverse ✔
- c. Right –most derivation
- d. Left-most derivation

The correct answer is: Right-most derivation in reverse

Question **19**

Correct

Mark 1.00 out of 1.00

Which type of conflicts can occur in LR Parsing?

Select one or more:

- a. Shift - Reduce ✔
- b. Shift - Shift
- c. Reduce - Reduce ✔

The correct answers are: Shift - Reduce, Reduce - Reduce

Question **20**

Correct

Mark 1.00 out of 1.00

Consider the grammar with non-terminals N = { S, C, S1 }, terminals T = { a, b, i, t, e }, with S as the start symbol, and the set of rules:
{S->iCtSS1|a ;
S1->eS|null ;
C->b}
The grammar is LL(1) , True / False

Select one:

- a. The Grammar left recursive
- b. The Grammar is not LL(1)
- c. The grammar is LL(1)
- d. The grammar is ambiguous ✔

The correct answers are: The Grammar is not LL(1), The grammar is ambiguous

Question **21**

Incorrect

Mark 0.00 out of 1.00

What are possible form of input to Code Generation phase

Select one:

- a. Postfix Notation
- b. Any of these
- c. Abstract Syntax Tree
- d. Three Address Code ✖

The correct answer is: Any of these

Question **22**

Partially correct

Mark 0.67 out of 1.00

Which pasers have same number of states for same Grammar?

Select one or more:

- [x] a. SLR ✔
- [ ] b. LR(0)
- [ ] c. LR(1)
- [x] d. LALR ✔

The correct answers are: LR(0), SLR, LALR

Question **23**

Incorrect

Mark 0.00 out of 1.00

What is cost(Number of Byte Access in digit) of Instruction **'INC a'** ?

Answer: 5 ✖

The correct answer is: 2

Question **24**

Correct

Mark 1.00 out of 1.00

One of the purposes of using intermediate code in compilers is to

Select one:

- (●) a. increase the chances of reusing the machine-independent code optimizer in other compilers. ✔
- ( ) b. improve the register allocation.
- ( ) c. improve error recovery and error reporting.
- ( ) d. make parsing and semantic analysis simpler.

The correct answer is: increase the chances of reusing the machine-independent code optimizer in other compilers.

Question **25**

Correct

Mark 1.00 out of 1.00

which of the following statements are leaders?

1) i = 1;

2) j = 1;

3) t1 = 10*j;

4) t2 = t1*j;

5) if j <= 10 goto (3)

6) i=i+1;

7)

Select one:

- ( ) a. 1,2,3,6
- ( ) b. 1,3,5,6
- ( ) c. 1,2,3,4,5,6,7
- (●) d. 1,3,6 ✔

The correct answer is: 1,3,6

Question **26**
Correct
Mark 1.00 out of 1.00

Synthesized attribute is an attribute whose value at a parse tree node depends on?

Select one:

- a. None
- b. Attributes at present node only
- c. Attributes at siblings only
- d. Attributes at children only ✔

The correct answer is: Attributes at children only

Question **27**
Correct
Mark 1.00 out of 1.00

The bottom-up parsing method is also called

Select one:

- a. Predictive parsing
- b. Recursive descent parsing
- c. Shift reduce parsing ✔
- d. None of these

The correct answer is: Shift reduce parsing

Question **28**
Correct
Mark 1.00 out of 1.00

In LL(K) is written then what is second L indicate :

Select one:

- a. Left recursion
- b. Left most derivation ✔
- c. Left to right scanning of input tape
- d. Look ahead

The correct answer is: Left most derivation

Question **29**
Correct
Mark 1.00 out of 1.00

In which parsing, the parser constructs the parse tree from the start symbol and transforms it into the input symbol.

Select one:

- a. None of the these
- b. Top-down parsing ✔
- c. Bottom-up parsing
- d. Bottom up and Top down

The correct answer is: Top-down parsing

Question **30**

Incorrect

Mark 0.00 out of 1.00

Following grammar string → string + string | string - string | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 is unambiguous grammar.

Select one:

- True ✖
- False

The correct answer is 'False'.

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