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			y, 11 October 2021, 11:47 AM			
		Finished				
Time taken		Monday, 11 October 2021, 12:30 PM				
			43 mins 29 secs			
	Grade	<b>30.0</b> ou	et of 35.0 ( <b>86</b> %)			
Question <b>1</b> Correct Mark 1.0 out of 1.0			imple LR (SLR), canonical LR, and look – ahead LR (LALR), which of the following pairs identify to implement and the method that is the most powerful, in that order?	y the method that is		
	1	a. SL	R, canonical LR ✔			
		O b. Ca	anonical LR, LALR			
		C. SL				
			NLR, canonical LR			
		U. LA	KER, CATIONICALER			
		The corre	ect answer is: SLR, canonical LR			
Question <b>2</b> Correct		Select the definition related to term.				
Mark 1.0 out of 1.0		Pattern	is a description of the form that the lexemes of a token may take.	<b>~</b>		
	1	Token	is a pair consisting of a name and an optional attribute value.	<b>~</b>		
		Lexeme	is a sequence of characters in the source program that matches the pattern for a token	<b>~</b>		
Question <b>3</b> Incorrect	]	consisting matches	ect answer is: Pattern $\rightarrow$ is a description of the form that the lexemes of a token may take., To g of a name and an optional attribute value., Lexeme $\rightarrow$ is a sequence of characters in the southe pattern for a token $\{Y.S = A.S, Y.S = X.S, Y.S = Z.S\} \text{ is example of :}$			
Mark 0.0 out of .0						
	1	Select on				
		○ a. Bo	oth S attributed and L Attributed			
		O b. No	one			
		© c. S -	- Attributed SDT 🗙			
		O d. L-	- Attributed SDT			

Question <b>4</b>	Which of the following is correct?		
Correct	(A) An attribute of a node (non-terminal) that depends on the value of attributes of children nodes in the parse tree is		
Mark 1.0 out of 1.0	called an inherited attribute.		
	(B) An attribute of a node (non-terminal) that depends on the value of attributes of siblings and parent nodes in the parse tree is called a synthesized attribute.		
	(C) Both are correct		
	(D) None is correct		
	Select one:		
	a. only A is correct		
	○ b. A and B both are correct		
	◎ c. None ✔		
	○ d. only B is correct		
	The correct answer is: None		
	The correct answer is, none		
Question <b>5</b>	In which parsing, the parser constructs the parse tree from the start symbol and transforms it into the input symbol.		
Correct			
Mark 1.0 out of 1.0			
	Select one:  a. None of the these		
	<ul><li>● b. Top-down parsing ✓</li><li>○ c. Bottom up and Top down</li></ul>		
	<ul> <li>d. Bottom-up parsing</li> </ul>		
	The correct answer is: Top-down parsing		
Question <b>6</b> Correct	Which of the following is incorrect conflict of a LR-parser?		
Mark 1.0 out of	Select one:		
1.0	a. reduce-shift conflict		
	b. reduce-reduce conflict		
	□ c. shift-shift conflict      ✓		
	od. shift-reduce conflict		
	The correct answer is: shift-shift conflict		
Question <b>7</b> Correct	The YACC takes CFG as input and outputs		
Mark 1.0 out of	Select one:		
1.0	a. Top down parsers		
	○ b. None of the mentioned		
	○ c. Machine code		
	■ d. Bottom up parsers      ✓		

The correct answer is: Bottom up parsers

Consider the following SDT,  $S \rightarrow M \{PRINT "2";\} A$  $M \rightarrow 1 \{PRINT "";\}$  $A \rightarrow D \{PRINT "1";\} E$  $D \rightarrow 2 \{PRINT "";\}$  $E \rightarrow E \{PRINT "";\} A$  $\mathsf{E} \to \mathsf{3} \; \{\mathsf{PRINT} \; "\; ";\}$  $A \rightarrow S \{PRINT "4";\} Y$  $\mathsf{S} \to \mathsf{4} \; \{\mathsf{PRINT} \; "\; ";\}$  $\mathsf{Y} \to \in \{\mathsf{PRINT} \ ``\ ";\}$ If the top down parsing is used to parse the input string "1234" then the output number produced (without any spaces) is Select one: a. 412 b. 214 

✓ O c. 124 O d. 123 The correct answer is: 214 Choose the correct statement. Select one: a. Ambiguous Grammar can never be LR b. CFG is not LR c. None of the mentioned d. CFG is not LR & amp; Ambiguous Grammar can never be LR 

✓

The correct answer is: CFG is not LR & Diguous Grammar can never be LR

Question 8

Question **9** 

Mark 1.0 out of

Correct

Correct Mark 1.0 out of

Question 10 Correct Mark 1.0 out of 1.0	What is Follow(A) in the grammar? $S \rightarrow AC/Ca/Bd$ $A \rightarrow d$ $B \rightarrow e/e$ $C \rightarrow f/e$ Select one:  a. $\{f, e\}$ b. $\{d, \$\}$ c. $\{f, \$\}$ d. $\{a, \$\}$
Question <b>11</b> Correct Mark 1.0 out of 1.0	Which bottom up parser is most efficient  Select one:  a. LALR ✓  b. LR(0)  c. SLR  d. LR(1)
	The correct answer is: LALR
Question <b>12</b> Correct Mark 1.0 out of 1.0	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 13 Correct Mark 1.0 out of 1.0	A lexical analyzer reads characters from the input and groups them into token objects."  Select one:  True ✓  False
	The correct answer is 'True'.

Question <b>14</b> Incorrect	Following grammar string $\rightarrow$ string   string   string   0   1   2   3   4   5   6   7   8   9 is unambiguous grammar.
Mark 0.0 out of	Select one:
	○ Fa se
	The correct answer is 'False'.
Question <b>15</b> Correct Mark 1.0 out of 1.0	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 is LL(1)
	<ul><li>b. The Grammar left recursive </li><li>c. The grammar is ambiguous</li></ul>
	d. The Grammar is antibiguous
Question <b>16</b> Correct Mark 1.0 out of	The correct answers are: The Grammar is not LL(1), The grammar is ambiguous  Specialized buffering techniques have been developed to reduce the amount of overhead required to process a single input character.
1.0	Select one:
	○ False
	The correct answer is 'True'.
Question <b>17</b> Correct Mark 1.0 out of	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.
1.0	Select one:
	a. target language
	<ul><li>● b. source language ✔</li></ul>
	○ c. machine language
	The correct answer is: source language

Question 18 Correct	Which one of the following statements is FALSE?
Mark 1.0 out of	Select one:
1.0	<ul><li>a. Type checking is done before parsing.</li></ul>
	<ul> <li>b. Arguments to a function can be passed using the program stack.</li> </ul>
	oc. Context-free grammar can be used to specify both lexical and syntax rules.
	O d. High-level language programs can be translated to different Intermediate Representations.
	The correct answer is: Type checking is done before parsing.
Question 19 Correct	identify the language for following regular expression a*ba*ba*ba*
Mark 1.0 out of	Select one:
1.0	<ul> <li>a. All strings of a's and b's begin and end with a.</li> </ul>
	○ b. All strings of a's and b's.
	<ul><li>○ c. All strings of a's, with just three b's </li></ul>
	O d. none
	The correct answer is: All strings of a's, with just three b's
Question <b>20</b> Correct	A inherited attribute is an attribute whose value at a parse tree node not depends on
Mark 1.0 out of 1.0	Select one:
1.0	a. Attributes at parent node only
	<ul> <li>b. Attributes at the siblings only</li> </ul>
	<ul><li>c. Attributes at children nodes only</li></ul>
	O d. None of the above.
	The correct answer is: Attributes at children nodes only
Question <b>21</b> Correct	Which one from the following is false?
Mark 1.0 out of	Select one:
1.0	a. LR parser is bottom up parser
	b. LALR parser is bottom up parser
	c. In LL(1), the 1 indicates that there is a one - system look - ahead.
	<ul> <li>d. A parsing algorithm which performs a left to right scanning and a right most deviation is RL(1)</li> </ul>

The correct answer is: A parsing algorithm which performs a left to right scanning and a right most deviation is RL(1)

Question <b>22</b>	The action of pa	rsing the sou	ırce program into proper syntactic classes is called
Incorrect			
Mark 0.0 out of 1.0	Select one:		
1.0	a. Interpreta		
	<ul><li>b. Syntax an</li></ul>	alysis 🗙	
	oc. Lexical an	alysis	
	Od. General s	yntax analysi	S
	The correct answ	ver is: Lexical	analysis
Question <b>23</b> Correct	In a string of len	gth n, how n	nany of the following are there?
Mark 1.0 out of	Proper prefixes	n-1	<b>✓</b>
	Suffixes	n+1	<b>✓</b>
	Prefixes	n+1	<b>✓</b>
Question <b>24</b> Correct Mark 1.0 out of 1.0	Which of the following Select one:  a. Pharse reconstruction b. Error proconstruction c. Phrase levels d. Panic models	cognization • duction rel recovery	error recovery stretegy?
	The correct answ	ver is: Pharse	recognization
Question <b>25</b> Correct	The symbol table	e is a data sti	ructure containing a record for each variable name, with fields for the attributes like
Mark 1.0 out of	Select one:		
1.0	a. variable a	llocated stor	age
	ob. variable s	cope	
	O d. variable t	ype	
	The correct answ	ver is: all	

Question <b>26</b> Correct Mark 1.0 out of 1.0	What is the grammar for the below equations? $S \rightarrow C C$ $C \rightarrow c C \mid d$ Select one:  a. LALR(1) but not SLR(1)  b. LR(1) but not LALR(1)
	<ul><li>c. SLR(1) but not LL(1)</li><li>d. LL(1) ✓</li></ul>
	The correct answer is: LL(1)
Question <b>27</b> Correct Mark 1.0 out of 1.0	Consider these two statements: P: Every regular grammar is LL(1) Q: Evey regular set has a LR(1) grammar which of the following is TRUE?
	Select one:  a. P is true and Q is false  b. Both P and Q are false  c. P is false Q is true   d. Both P and Q are true
	The correct answer is: P is false Q is true
Question 28 Incorrect Mark 0.0 out of 1.0	The grammar A->AA (A) null is not suitable for predictive-parsing because the grammar is  Select one:  a. an operator grammar  b. ambiguous   c. left recursive  d. right recursive
	The correct answer is: left recursive
Question <b>29</b> Correct Mark 1.0 out of 1.0	Which of the following is FALSE?  Select one:  a. Parser generator tool is LEX  b. SLR is powerful than LALR ✓  c. YACC tool is an LALR(1) parser generator
	O d. An LL(1) parser is top-down parser.

The correct answer is: SLR is powerful than LALR

Question <b>30</b> Correct	A bottom-up parser generates				
Mark 1.0 out of	Select one:				
1.0	a. Left-most derivation in reverse				
	O b. Left-most derivation				
	c. Right –most derivation				
	The correct answer is: Right-most derivation in reverse				
Question <b>31</b> Correct	With respect to compiler design, "recursive descent" is a parsing technique that reads the inputs from				
Mark 1.0 out of 1.0	Select one:				
1.0	a. Bottom up , left to right				
	O b. Bottom up , right to left				
	© c. Top-down , left to right				
	od. Top-down , right to left				
	The correct answer is: Top-down , left to right				
Question <b>32</b>	Consider the following translation scheme.				
Correct	S → ER				
Mark 1.0 out of 1.0	$R \rightarrow *E\{print("*");\}R \mid \epsilon$				
	$E \rightarrow F + E \{ print("+"); \} \mid F$				
	$F \rightarrow (S) \mid id \{print(id.value);\}$				
	Here id is a token that represents an integer and id.value represents the corresponding integer value. For an input '2 $*$ 3 $+$ 4', this translation scheme prints				
	Select one:				
	○ a. 2 * 3 + 4				
	O b. 2 * + 3 4				
	© c. 2 3 4 + * ✓				
	Od. 23*4+				
	The correct answer is: 2 3 4 + *				

# Question **33**Correct Mark 1.0 out of

#### Select the correct definition



The correct answer is: Scanner generators  $\rightarrow$  produce lexical analyzers from a regular-expression description of the tokens of a language., Parser generators  $\rightarrow$  automatically produce syntax analyzers from a grammatical description of a programming language., Syntax-directed translation engines  $\rightarrow$  produce collections of routines for walking a parse tree and generating intermediate code.

Question **34**Correct
Mark 1.0 out of 1.0

Is below given syntax directed definition correct to verify Variable re-declaration error?

```
E:id { lookup(id.entry);
    if (id.type = NULL)
        print 'Error'
        E.type = type_error
    else
        E.type = lookup (id.entry)
}
```

### Select one:

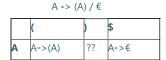
True

● False

The correct answer is 'False'.

Question **35**Incorrect
Mark 0.0 out of 1.0

Which production will come under the cell "??" in LL(1) parsing for given grammar



Select one:

○ a. A -> (A)

b. A->€

c. No production will come in "??" cell. X

The correct answer is: A->€

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