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1	Stack	Relation	Input	Transport and
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Input String is not parse using operator precedence grammer

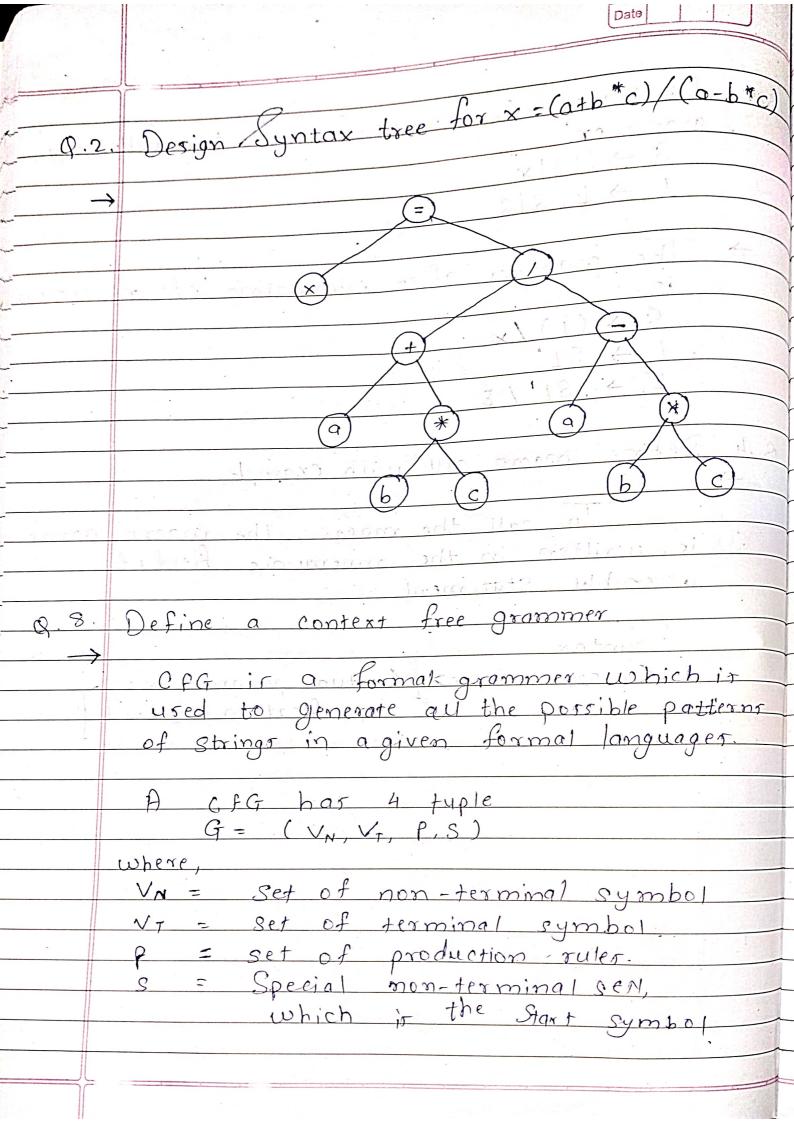
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Q.5.	Categorize FIRST and FOLLOW set for given grammer below.
	grammer below.
	$E \rightarrow TE'$ $E' \rightarrow +TE'$
	$E' \rightarrow E$
	$T \rightarrow FT'$
	$T' \rightarrow *_{\Gamma}T'$
	$T' \rightarrow \epsilon$
	$F \rightarrow (E)$
	$F \rightarrow id$
<del></del>	FIRST sets :-
	$FIRST(F) = \{(,id)\}$
-	$FIRST(T') = \{ *, \epsilon \}$ $FIRST(T) = \{ (,id) \}$
	$FIRST(E') = \{+, \epsilon\}$
	$FIRST(E) = \{(,id)\}$
	$FIRST(E) = \{E\}$
11	$FIRST((E)) = \{(\}$
	FIRST (id) = {id}
	$IRST(TE') = \{(,id)\}$
F	$IRST (+TF') = \{+\}$
11	$IRST(E) = \{E\}$
11	$IRST(FT') = \{(,id)\}$
	$IRST (*FT') = \{*\}$
	OLLOW Set's OLLOW $(\mathbf{E}) = \{ \$, \} $
- 11	$DLLOW(E) = \{ \emptyset, \} \}$
11	$\frac{1}{1} \frac{1}{1} \frac{1}$
11	$Llow(T) = \{+, \}, \}$
	$LLow(F) = \{+, *, \}$

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		Page No.
(Q.5.	Diff. bet? Top-down techniques.	& Bottom up parsing
		· / / /
$\rightarrow$	Top-down Parsing	Bottom-up parsing.
i)	A parsing strategy that first looks at the highest	A parsing strategy that first looks at the lowert
	level of parse tree farmal	works up the parse tree
<u> </u>	grammer.	formal grammer.
ii)	Process starts with Root	Process starts with leaves
<u> </u>	It starts with starting symbol of grammer	It ends with Starting Symbol of grammer
iv)	This parsing technique urer Left most Derivation	This parsing technique user Right Most Derivation
×)	It is not accepting Ambiguou	It is accepting Ambiguour
	073177)63	
	It is less powerful than	It ir more powerful
	bottom up parser	
Yi)	It is simple to produce	Ttois difficult to
	parser management lance	
V())	It user (1) grammer to	
ix)	Error detection in weak	

0 112	
	west to before a common to I drive
8.7	Define i) macro
2371	macron expansion
- // * * T	the casa track triois montosina ( tage that
_	i) macro -
usideer	Macro is a preprocessor directive
	macro is a sequence of instruction
	assigned by a name which can be used
(a)	at any location in the program!
r de e	le must git moil i many jui voitad i
	ii) macro expansion -
	macro expansion is the replacement
	of macro call into e macro definition
	Typer:- 1) Lexical expansion
9.16	Semantic expansion
	Area of chearpening pine man of the
	La tour de de la
- 11	

	Page No. Date
8.12.	fliminate left recursion from the following grammer.
	$S \rightarrow (L)/X$ $L \rightarrow L, S/S$
$\rightarrow$	The grammer after eliminating left recursion
	$\begin{array}{c} S \rightarrow (1)/X \\ 1 \rightarrow SL \end{array}$
	$L' \rightarrow SI'/E$
g. 4. →	Define macro call with example.
	To call the macro, the macro nam is written in the mnemonic field of
	assembly Statement
/	Syntax (macro name) [ (actual parameter 7]
7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Specification >[5]



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0 :	
9.0	Define Finite State Automata
	a full and the second of the
	of States in which
	We to the way of the second services and the second services and the second services are the second services and the second services are the second services and the second services are the second second services are the second second services are the second se
*	timite automata consists of states and
	transitions, we denote states as circles and
	Transitions as grows connecting one state
	to another distributions
	existe that examine my redark inclines with the
	and the minimum of the state of
Q.1.	List out the Features of macro
$\rightarrow$	in an indicator
Local	i) Some Standard system variable Symbols.
	2) conditional assembly
( )	3) The use of one system variable symbol
	to solve the branch problem
	4) The use of concatenation to generate
	type- specific instructions.
	THE SPECT OF THE PARTY OF THE PROPERTY OF THE
	some with anything with
	Ender and productions (iii
7 /	A Maria and the second of the

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	Date Date
	Date
	Define Top Down Parsing? State Drawbacks
	Défire of Davisia
	97 70F 20:011 1 3.311J.
- 3000 1 - 3	i) A parsing Strategy that & first look
	i) to parsing Strategy Than
- Free Free	11 014 6 01000 1000 1000 1000
1 m	down parse tree by using the ruler
- hint-	of formal grammer
	ii) Process Storts with Root
	This of the start will be the most
	iii) This parsing technique uses Left most
	Derivation,
	THERETE IN MENTER THE FIRE TO A TO
	Drawbacks:-
. sladm	i) In the top-down parsing, each terminal
	Symbol producer by multiple production
Carte	of the grammer. (which is predicted)
	15 connected with the input String
9 - 10 11	Symbol pointed by String maker
	match is successful, the Darcer can
	Systain, It the microatch now
	then predictions have gone wrong
	i) Racktracking live Jone wrong
	top do so of
	i) Backtracking was major drawback of top down parsing.
-	
. 11	

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5.9.	List the advantage and disadvantages of operator precedence parsing.
	Advantager:  1) It can easily be constructed by hand.  2) It is simple to implement this type of parsing.  3) Simple Powerful enough for expressions in programming languages.
2	Disadvantager:-  ) Small clars of grammers  ) It cannot handle the unany minus  i) Difficult to decide which language is recognized
4	by the grammer.  1 It is applicable only to Small class of grammers.

