OBJECTIVE TYPE QUESTIONS

(b) Context-sensitive grammar

(c) Context-free grammar

(d) Unrestricted grammar

(n)	The output of the parser is	(\mathbf{R}) 7.	Parsing is done using	derivations in	
(K) 2.					
(a) To (b) P (c) P (d) C (d) N (e) P (d) N (e) P (d) N (f) N	The output of the parser is (a) Tokens (b) Parse tree (c) Syntax tree (d) Non-terminals Production rules can be written (a) Only in recursive manner (b) Only in non-recursive manner (c) Both in recursive and non-recursive manners (d) None of these In the production rule $A \rightarrow \alpha$, the head and definition of the rule are (a) Terminal, non-terminal (b) Non-terminal, terminal (c) Non-terminal, grammar symbol (d) Non-terminal, string of grammar symbols Consider the following grammar: $S \rightarrow aAbS \qquad A \rightarrow bSaA$	R 8.	(a) top-down parser (b) bottom-up parser Ambiguities in the gra (a) more than two pars (b) more than one pars (c) only one parse tree (d) no parse tree (d) no parse tree Handle is (a) head of the gramm (b) definition of the gr (c) set of non-terminal (d) set of terminals Recursive descent pars (a) bottom-up parser (b) top-down parser	(c) All of these (d) None of these ammar yields se trees se tree car rule cammar rule ls	
	$S \rightarrow e$ $A \rightarrow c \mid d$ The language produced by the grammar is (a) abecbe (c) abebedbe (b) abebecbe (d) None of these Which one of the following grammar is more powerful? (a) Regular grammar		(1) (1) (1) (2) (2) (2) (2) (3) (3) (4) (4) (5) (5) (6) (6) (7) (7) (7) (7) (7) (7) (7) (7) (7) (7	eng <u>og trefter</u> fræ	
				p-down parser	

R) 1. Can context-sensitive grammar be used for rep-

(b) No

resenting the programming language?

(a) Yes

Compiler Design

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- (c) goes to the scanner and tries with other grammar Ad was a good of the highest and to
- (d) goes to the previous expansion of rule where there are alternative definitions
- R)13. After elimination of the left recursion from the grammar $A \rightarrow Ab \mid c$, it gives
 - (a) $A \rightarrow cA^{1}$, $A^{1} \rightarrow bA^{1} \mid \varepsilon$
 - (b) $A \rightarrow bA^{1}$, $A^{1} \rightarrow cA^{1} \mid \varepsilon$
 - (c) $A \to cA^{1}, A^{1} \to cA^{1} \mid \varepsilon$
 - (d) $A \rightarrow bA^{l}, A^{l} \rightarrow bA^{l} \mid \varepsilon$
- (A)14. The grammar $exp \rightarrow exp-exp \mid exp/exp \mid id$ can be rewritten as should imagine will be greaten
 - (a) $\exp \rightarrow \exp A \mid id, A \rightarrow -\exp \mid /\exp A \mid id$
 - (b) $exp \rightarrow exp \ B \ | \ id, \ B \rightarrow -exp \ | \ /exp$
 - (c) All of these and surrounding up and the sound
 - (d) None of these
- (A)15. Consider a grammar $A \to X_1 X_2 X_3 X_4$. If, X_1 is a non-terminal and X_2 produces ε , then follow of X, is
 - (a) $first(X_i)$
- (c) $first(X_3)$
- (b) $first(X_2)$
- (d) $first(X_4)$ U16. Is the grammar $A \rightarrow X_1 X_2 X_3 X_4$ an operator grammar when X_1 through X_4 are non-terminals? (b) No
- R17. The basic actions in the parsing process of any bottom-up parser are
 - (a) shift, produce, accept, reject
 - (b) shift, produce, accept, reject
 - (c) rotate, produce, accept, reject
 - (d) shift, reduce, accept, reject
- (U)18. LR stands for
 - (a) left to right
 - (b) left to right, rightmost derivation in reverse
 - (c) left to right, rightmost derivation
 - (d) left to tight, right to left

- (1) 19. The LR(0) item $B \rightarrow a. \gamma$ refers to
 - (a) the parser has completed the parsing
- (b) the parser is about to start parsing the deriv. atives of γ
- (c) the parser has parsed a and is about to star parsing the derivatives of γ
- (d) the parser is about to start parsing the derivatives of γ
- (U)20. The LR item $(B \rightarrow a. \gamma, b)$ is
- (a) LR(0) item
- (c) LR(2) item
- (b) LR(1) item
 - (d) None of these
- (U)21. The grammar $S \rightarrow L = R$ leads to the presentation of
 - (a) arithmetic expression
 - (b) left to right expression
 - (c) shift from left to right expression
 - (d) an assignment statement
- U22. In the LR(1) item $[A \rightarrow \alpha.\beta, b]$, which one of the following is the core item?
 - (a) $A \rightarrow \alpha$.
- (c) $A \rightarrow \alpha.\beta, b$
- (b) $A \rightarrow \alpha . \beta$
- (d) $A \rightarrow .\beta$
- (R)23. Relatively, the number of states is high in (a) SLR parser (c) LALR parser
 - (b) CLR parser
- R24. Yacc is
 - (a) yet another compiler-computer
 - (b) yet another computer-compiler
 - (c) yet another computer-computer
 - (d) yet another compiler-compiler
- R25. In using Yacc tool, which one of the following sections is mandatory?
 - (a) Definition section
 - (b) User subroutine section
 - (c) Rules section
 - (d) None of these