There were total 52 Questions

40 MCQs of 1 Mark

4 were of 2 Marks

4 were of 3 Marks

4 were of 5 Marks

Some the MCQs were as under: -

In compilers, linear analysis is also called

- a. Lexical Analysis
- b. Scanning
- c. Lexical Analysis and Scanning
- d. None of the given

2. The test of string is described by a rule called a ______, associated with token.

- a. Character
- b. Loader
- c. Pattern
- d. None of the given

3. The regular expression _____ denotes, the set of all strings of a's and b's of length two.

- a. a*
- b. $(a^*|b^*)^*$
- c. (a*b*)*
- d. (a|b)(a|b)

(Lexical Analyzer Generator), is written in Java.

- a. Flex
- b. Jlex
- c. Complex
- d. None of the given

Bottom up parsing is also called _____

- a. LR Parsing
- b. LT Parsing
- c. LS Parsing
- d. None of the given

6 Thoch	aft action
6. The sh	ift action a terminal on the stack
	a. (Pushes)
	b. Pops
	c. Both pushes and pops
	d. None of the given
7. A DFA	can be reconstructed from NFA using the subset construction, similar to one used for
	a. (Lexical Analysis)
	b. Physical Analysis
	c. Logical Analysis
	d. Parsing
8. The pa	arser generator YACC can handle grammar.
	a. (LL(1)
	b. LT(1)
	c. LS(1)
	d. LF(1)
9. A linke	er combines multiple object files into a executable object.
	a. <mark>Single</mark>
	b. Double
	c. Triple
10. The no	d. Quadruple otation instructs YACC to push a computed attribute value on the stack
to. The fic	a. (\$\$)
	b. &&
	c. ##
	d
	
11. Hybrid	IRs combine elements of
a.	Graphical (Structural)
b.	Linear IRs
C.	Both
d.	Non-Linear IRs
12. A	parser creates the nodes in the AST in preorder.
a.	Top – Down
b.	Bottom – Up
C.	Middle – Ware

d. Straight

	a.	(FA)		
	b.	PDA		
	C.	DP		
	d.	Unidirectional Graph		
14 .	. The or	der in which DAG is traversed can lead to code.		
	a.	(Better)		
	b.	Worse		
	C.	Large		
	d.	Garbage		
1 5.	. Which	of the following system software resides in the main mer	mory always?	
	a.	Text editor		
	а. b.	Assembler		
	C.	Linker		
	d.	(Loader)		
16.		plays an important role in code optimization.		
	a.	(DAG)		
	b.	Lexical Analyzer		
	c.	AGD		
	d.	Memory Management		
bje	ctive F	<mark>Part</mark>		
1.	Trancl	ate the regular expression "r*" in simple words. (2	2 Marks)	
2.			2 Marks)	
3.		information we can get from the second section of Y		(2 Marks)
<i>3</i> . 4.		n memory, what type of information is stored in data		(2 Marks)
	Consider the following statement (2 Marks)			
٥.		+ (b*a)		
		re required to translate it into an AST.	(2 Morks)	
6		•	(3 Marks)	
		lo we construct an LR parsing table for a grammar?	(3 Marks)	
7.	Devel	op an algorithm to generate LALR(1) DFA.	(5 Marks)	

13. A lexical analyzer generator automatically constructs a _____ that recognizes tokens.