COMPILER CONSTRUCTION

For MCA Sem V And IMCAA Sem IX

QUESTIONS MULTIPLE CHOICE

1. If the source language is high level language and the object language language(assembly or machine), then such a translator is called as			0 0	level .	
	a)translator	b)assembler	c)compiler	d)interpreter	Ans:c
2.	language, ther	anguage is an assemb n the translator is call	ed an .	arget language is a	machine
	a)translator	b)assembler	c)compiler	d)interpreter	Ans:b
3.	programs in a	nslators that take pro nother high level lang		el language into equ	ıivalent
	a)Preprocessor	r b)Compiler	c)Assembler	d)Translator	Ans:a
4.	The compilation b)sub program	on process is partition m	ed into a series of sub c)module	processes called a) d)subsets	phases Ans:a
5.	The first phase	e of the compiler is als	so called as		
	a)scanner	b)parser	c)tokens	d)macro	Ans:a
6.	The output of	the lexical analyzer ar	re a stream of		
	a)instructions	b)tokens	c)values	d)inputs	Ans:b
7.	_	ouped together into sy		ed as an	
	a)expression	b)tokens	c)instructions	d)syntax	Ans:a
8.	Syntactic stru	cture can be regarded		es are the	
	a)scanner	b)parser	c)tokens	d)macro	Ans:c
9.	Data structure	e used to record the in	nformation is called a	table.	
	a)syntactic	b)symbol	c)value	d)tokens	Ans:b
10.	In an impleme amodule called	entation of a compiler, d a .	portions of one or mo	ore phases are comb	ined into
	a)pass	b) parser	c)scanner	d)set	Ans:a
11.	The code for execu	<u>-</u>	ves optimized interme	diate codes and gen	erates the
	a)lexical analy		b)syntax analyzer		
	c)code optimiz	er	d)code generator		Ans:d
12.	A compiler ma such a compile	ay run on one machine er is called a	and produce object c	ode for another mac	chine,
	a) cross compi	iler	b)medium compiler		
	c) back compil	ler	d)mixed compiler		Ans:a

13.	The main function of lexical analyzer is to read a .				
	a) source prog		b)object program		
	c)intermediate	e code	d)sub		Ans:a
14.	One character a)instructions	is read at a time and b)tokens	translated into a seque)values	uence of primitive u d)numbers	nits called Ans:b
15.	Which is not a	a token?			
	a)operator	b)instructions	c)keywords	d)identifier	Ans:b
16.	It is easy to the program.	specify the structure	e of tokens than th	e struct	ture of
	a)syntactic	b)syntax	c)both (a) and (b)	d)main	Ans:a
17.	is u	ised to define a langua	age.		
	a) Lexical Ana	lyzer	b)Parser		
	c)Regular Exp	ression	d)Identifier		Ans:c
18.	A string is a fi	nite sequence of			
	a)symbols	b)tokens	c)instructions	d) passes	Ans:a
19.	The concatena	ation of any string witl	h an empty string is t	he .	
	a)string itself	• •	c)symbol	4) 4 4 4 .	Ans:a
00	:_				
20.		used to describe toke			
	a) Lexical Ana	•	b)Parser		A
	c)Regular Exp	ression	d)Random		Ans:c
21.	NFA stands fo				
	•	tic Finite set Automata	a		
	•	tic Finite Automata ninistic Finite Automat	to		
	,	ninistic Finite Automat ninistic Finite set Auto			Ans:c
	d) Non Betern	minstic Finite set Auto	mata		Alis.c
22.	_	ed transition diagram			•
	a) finite auton		b)infinite automator		_
	c)regular auto	maton	c)irregular automato	on	Ans:a
23.	is	s a tool that automation	cally generating lexica	al analyzer.	
	a)LEX	b)HEX	c)SLR	d)CLR	Ans:a
24.	In CFG .the ba	asic symbols of the lar	nguage are called		
	a)terminals	b)non terminals	c)symbols	d)digits	Ans:a
25	Tokens are				
40.	a)terminals	b)non terminals	c)symbols	d)digits	Ans:a
	,	,		,	
26.	-	ols and syntactic varia		4)1:	A
	a)terminals	b)non terminals	c)symbols	d)lines	Ans:b

,	ne step ne or more steps	b)derives in zero or n d)does not derive	nore steps	Ans:a
28. The symbol =*= a)derives in on c) derives in or		b)derives in zero or n d)does not derive	nore steps	Ans:b
	presentation for derivant rder is called the b) graph tree	•	ne choice regarding d) symbol tree	Ans:a
30. A parse tree co a) nodes, edges c)terminals, lir		f labeled con b)edges, nodes d)lines, terminals	nected by	Ans:a
31. A parser for Groutput is a) parse tree	rammar G is a program for W. b) slr	m that takes as input c) error message		ces as Ans:a
32. If W is a senter a) parse tree	*	indicating that W	<i>I</i> is not a sentence of d) string	of G. Ans:c
_	parsing method is ca b) recursive decent		d) top down	Ans:a
	parsing is called pars b) recursive decent		d) top down	Ans:b
	recedence parser is on b) descent	-	d)top down	Ans:a
-	ser is one kind of pars b)recursive descent		d)top down	Ans:b
37. The output of a a) parser tree	a parser is the represe b) slr	entative of a . c) error message	d) tree	Ans:a
38. is a)Reader	s a program that produ b)Parser	uces valid parse trees. c)Writter	d)Producer	Ans:b
39. A rightmost de a)reduction c)reduction se	erivation in reverse is o	called as . b)sequence d)canonical reductio	n sequence	Ans:a
40. Rightmost deri a)canonical	ivation is sometimes c b)RMD	called derivations	s. d)low	Ans:b

41.	makes gramm	ar suitable for parsing	ζ.			
a) Fa	actoring	b)Right Factoring	c) Left Factoring	d) Reverse Factoria	ng Ans:c	
42.	Left Factoring	is a transformation fo	r factoring out the pre	efixes.		
	a)odd	b)common	c)positive	d)negative	Ans:b	
43.	Reverse of a ri	ght most derivation is	called .			
	a)reduction	b)handle	c)production	d)base	Ans:b	
44.	The canonical	reduction sequence is	s obtained by .			
	a)reduction	b)handle	c)production	d)handle pruning	Ans:d	
45.	Which is not a	a shift reduce parser a	ction			
	a)Shift	b)Reduce	c)Accept	d)go	Ans:d	
46	If a grammar l	has no two adjacent no	on terminals, then it i	is called as an gramı	mar	
	a)precedence	_	c)regular	d)irregular	Ans:b	
47.	The parsing ta	able is generally a dim	ensional array.			
	a) one	b) two	c) three	d)four	Ans:b	
48.	Precedence tal	ble can be encoded by	fun	ctions.		
	a) reduce		c) precedence	d) various	Ans:c	
49.	LR Parser is a	parser.				
.,,		b)Top Down	c)reverse	d)forward	Ans:a	
50	LR parser con:	struct a type of deriva	tion			
00.	a) RMD	b)MMD	c)LMD	d)CLR	Ans:a	
51	What are the o	components of LR Pars	ser?			
01.	a) Parsing a	-	b) Parsing table cons	struction		
	c) both a ar	nd b	d)Parsing note		Ans:c	
52.	fur	nction is a collection, c	called canonical collec	ction of LR (0) items.		
	a)GOTO	b) FIRST	c) FOLLOW	d) COMPUTE	Ans:a	
53.	The collection	of sets of LR (0) item i	s called .			
	a) SLR	b)CLR	c)LALR	d)DMR	Ans:b	
54.	The input strii	ng is in I/p buffer follo	owed by the right end	marker .		
	a)\$	b)%	c)*	d)&	Ans:a	
55. keeps the grammar symbols.						
	a) Top	b) Stack	c)Queue	d)Bottom	Ans:b	
56.	The	keeps the inp	out string.			
	a) input buffe	r b)output buffer	_	d)queue	Ans:a	

57.	7. directed translation allows subroutines or semantic actions to be attached to the productions of a context free grammar.					
	a)syntax	b)semantic	c)both	d)error	Ans:a	
58.	A syntax direc	eted translation schem	le is merely a gra	ammar.		
	a)regular	b)context sensitive	· ·	d)single	Ans:c	
59.	The	action is encl	losed in braces.			
	a)syntax	b)semantic	c)both	d)error	Ans:b	
60.	Implementation	on of syntax directed t	ranslators describes a	an mapping.		
	a)input	b)output c)in	put outputd)parse ta	ble	Ans:c	
61.	A compiler fragments toge	compiler wou ether, producing mod	ald tie the parser and dule.	the semantic action	program	
	a)one	b)two	c)three	d)more than one	Ans:a	
62.	polish places t	the operator at the rig	ht end.			
	a)Postfix	b) Prefix	c) Both	d) Polish	Ans:a	
63.	To evaluate th	expression, a	stack is used.			
	a)postfix	b) prefix	c) both	d) polish	Ans:a	
64.	The general st	rategy is to scan the p	oostfix code.			
	a)left right	b)right left	c)middle	d)end	Ans:a	
65.	If the attribute called as	es of the parent depen attributes.	d on the attributes of	the children ,then the	ney are	
	a)made	b)discovered	c)new	d) inherited	Ans:d	
66.	is a t	ree in which each leaf	represents an operar	nd and each interior	node an	
	operator. a)Parser Tree	b)Semantic Tree	c)Syntax Tree	d)Structured Tree	Ans:c	
67.		s of an entity are called				
	a) values	b)attributes	c)numbers	d)digits	Ans:b	
68.	Usually the "T result.	hree address code" co	ntains address two fo	or the and one	for the	
	a)operand	b)operator	c)result	d) statement	Ans:a	
69.	The	statement is	an abstract form of ir	ntermediate code.		
	a)2 address	b)3 address	c)Intermediatecode	d)address	Ans:b	
70.		the way of implement				
	a)Quadruples	s b) Triples	c) Indirect Triples	d) Parse Tree	Ans:d	
71.		are has 4 fields.			_	
	hl()madminles	h) Triples	c) Indirect Triples	d) Parse Tree	Angra	

72.	Parenthesized b)stack	numbers are used to c)queue	represent into the t d)value	riple structure. a)pointer Ans:a	
73.	Triples are list a) Direct		s, rather than listing c)Multiple	the triples thems d)New	elves. Ans:b	
74.		ocation to store the va b)place	due for a symbol. c)code	d)number	Ans:b	
75.	_		ne grammar symbols. c)transformation	d)evolving	Ans:b	
76.	subscripts ran	nge from 1 to some lir		me.	rs, where	
	a)compile	b) run	c) execution	d) process	Ans:a	
77.	In Triples uses a)fields	•	c) operand	d) instruction	Ans:a	
78.		is used in th	ne several stages of th	e compiler.		
	a) Table	b) Symbol Table	c) Records	d) Program.	Ans:b	
79.	and	·	ered into the symbol	_		
	•	nd syntactic analysis nd error handler	b) lexical and co d) lexical and co	ode generation ode optimization.	Ans:a	
80.		information.	pair of the formaab) Name and function d) Name and process	on.	Ans:a	
81.	-		e information about tl on is entered into		_	а
	a) Symbol Tal c) Syntactic ar		b) Lexical analysis d) Records.		Ans:a	
82.		ance matching in	·			
	a)Syntactic err c) Lexical Phas		b) Semantic errord) Reporting errord		Ans:a	
83.	Minimum dist	ance correction is	errors.			
	a)Syntactic Ph		b) Semantic erro			
84.	c) Lexical Phase Parser discard		d) Reporting error a token is encount		Ans:a	
· · ·	a)synchronizir					
	c) Group		d) none.		Ans:b	

85. The message should not be redundant in					
	a) Syntactic Phase errors	b) Semantic errors	8		
	c) Lexical Phase errors	d) Reporting error		Ans:d	
86.	When an error is detected the reaction	on of compiler is di	fferent,		
	a)A system crash				
	b)To emit invalid output	_			
	c) To merely quit on the first detected	l error.		A 1	
	d)All of the above.			Ans:d	
87.	Hashing meaning				
	a) Variation of searching technique		-		
	c)Variation of updating techniques	a. d)Variation of Do	eleting Techniques.	Ans:a	
88.	Andescribing t	the partition in sto	rage to be allocated for	the	
	name. a)Pointer b) AVAILABLE	E c) Offset	d) Attributes.	Ans:b	
00	WH 4 : 41 1 41 C:1 4:C' C EN	IMDLES			
89.	What is the length of identifier for Di a)5 b) 6	c) 4	d) 3	Ans:b	
	a)5 b) 6	C) 4	a) s	Alls:0	
90.	The accurate term for "Code Optimiz	ation" is			
	a)Intermediate Code	b) Code Improvem			
	c) Latter Optimization	d) Local Optimizat	tion.	Ans:b	
91.	The quality of the object program is	generally measured	d by its		
	a)Cost	b) Time	·		
	c) Size or Its running time	d) Code Optimiz	ation.	Ans:C	
92	The code optimization techniques co	nsist of detecting	in the program	and	
<i>_</i>	these patterns.	noise of deceeding_	m the program	ana	
	a)Errors and replacing	b) Patterns and	replacing		
	c) Errors and editing	d) Patterns and ed	liting.	Ans:b	
03	The important sources of optimizat	ion are the identifi	cation of common		
90.	a) Regular expression	b) Sub expression			
	c) expression	d) time.		Ans:b	
0.4	· -	.1			
94.	The term constant folding is used for		on		
	a)Local optimizationc) Latter optimization	b) Code optimizatid) Loop optimizati		Ans:c	
	c, Latter optimization	a, Loop opuilizan	O11.	11115.C	

95. performed within a straight line and	d no jump.					
a)Local optimization b) Code optimization						
c) Latter optimization	d) Loop optimization.	Ans:a				
96. From anyone in the loop to any other, there is a path of length one or more is						
a) Weakly Connected	b) Unique Entity					
c) Multi Connected	d) Strongly Connected.	Ans:d				
97. If some sequences of statements fro identifiers as	m arithmetic progressions, we say such					
a) Reduction	b) Induction Variables					
c) Code motion	d) Inner Loops.	Ans:b				
98. The replacement of an expensive op	peration by a cheaper one is called					
a) Reduction	b) Induction Variables					
c) Code motion	d) Inner Loops.	Ans:a				
99. Full form of DAG						
a) Dynamic acyclic graph	b)Data acyclic graph					
c) Directed acyclic graph	d)Detecting acyclic graph.	Ans:c				
100. Computed results can be left in_	as long as possible.					
a) Registers b) Triples	c) Indirect Triples d) Quadruples.	Ans:a				