Seat	ici		1	MA.	1
No.			310		

## T.E. (CSE) (Semester - II) Examination, December - 2015 COMPILER CONSTRUCTION (Online) Sub. Code: 45608

Tim	and Date: Monday, 07 - 12 - 2015 e: 04.00 p.m. to 05.00 p.m. astructions: 1) All questions are compu			Marks: 50
	2) All questions carry equa	ai marks.		
	Multiple choice questions.			
1)	Type checking is normally done du	uring		
	a) lexical analysis.	b)	syntax analysis	
	c) semantic analysis	d)	code optimization	
2)	Which of following is not a tool us	ed in co	mniler	
2)	a) Parser generator	cu m co	mpner	
	b) Syntax directed translation eng	rine		
	c) Scanner generator			
	d) Static checker			
	er and a supplier of the supplier of the			
3)	Which of following analyze the prog structure of program becomes clear			y that the
			Pretty printer	
		100	Interpreter	
4)	YACC is a			
	a) lexical analyzer generator	b)	parser generator	
	c) semantic analyzer	d)	none of the above	
-	a) Visithin nodes in top-down ord		.,	
5)	The errors that can be pointed out b		of the on the	
	a) syntax errors	b)	semantic errors	
	c) logical errors	d)	Internal errors	
	4			P.T.O

6)	Whic	h of following is used to specify t	oken	
	a) I	Finite Automata	b)	Regular Expression
	c) I	Regular Language	d)	None of these
7) T	he cor	mpiler has phases.		
	a) 3	5	b)	6
	c) '	7	d)	8 to the walling the country of the
8)	Lex s	epecification consist of	ALEGAN	
	a) ]	Declaration	b)	Rule
	c) .	Auxiliary procedure	d)	All above
9)	The c	output of a Lexical analyzer is		inxical annity is
	a) ]	Machine code	b)	Intermediate code
	c) .	A stream of tokens	d)	A parse tree
				100,751,99 10, 10
10)			inimi	ze overhead required to process
10)	input	character.		
10)	input a)	character. buffer-pairs	b)	sentinels
10)	input a)	character.		
	input a) c)	character. buffer-pairs parser	b) d)	sentinels none of the above
	input a) c) An al	character. buffer-pairs parser lternate term for Lexical analyzer i	b) d)	sentinels none of the above
	input a) c) An al a)	character. buffer-pairs parser lternate term for Lexical analyzer i	b) d) is b)	sentinels none of the above  parser
	input a) c) An al a)	character. buffer-pairs parser lternate term for Lexical analyzer i	b) d) is b)	sentinels none of the above  parser
11)	input a) d c) d An al a) c)	character. buffer-pairs parser lternate term for Lexical analyzer i	b) d) is b)	sentinels none of the above parser
11)	input a) c) An al a) c) Given	character. buffer-pairs parser  Iternate term for Lexical analyzer is pattern matcher pushdown automaton	b) d) is b) d)	sentinels none of the above  parser all of the above
11)	input a) c) An al a) c) Given a)	character. buffer-pairs parser  Iternate term for Lexical analyzer is pattern matcher pushdown automaton  n the string abc, the string ac is a	b) d) is b) d) b)	sentinels none of the above  parser all of the above
11)	input a) c) An al a) c) Given a) c)	character. buffer-pairs parser  Iternate term for Lexical analyzer is pattern matcher pushdown automaton  In the string abc, the string ac is a subsequence of abc prefix of abc	b) d) is b) d) b) d)	sentinels none of the above  parser all of the above  sub-string of abc suffix of abc
11)	input a) c) An al a) c) Given a) c)	character. buffer-pairs parser  Iternate term for Lexical analyzer is pattern matcher pushdown automaton  In the string abc, the string ac is a subsequence of abc prefix of abc	b) d) is b) d) b) d)	sentinels none of the above  parser all of the above  sub-string of abc suffix of abc
11)	input a) c) An al a) c) Given a) c) Input	character. buffer-pairs parser  Iternate term for Lexical analyzer is pattern matcher pushdown automaton  In the string abc, the string ac is a subsequence of abc prefix of abc	b) d) ss b) d) d)	sentinels none of the above  parser all of the above  sub-string of abc suffix of abc
11)	input a) An al a) c) Given a) c) Input a)	character. buffer-pairs parser  Iternate term for Lexical analyzer is pattern matcher pushdown automaton  In the string abc, the string ac is a subsequence of abc prefix of abc  It to the LEX is	b) d) sis b) d) b) b)	sentinels none of the above  parser all of the above  sub-string of abc suffix of abc

(4)	Lex	dical alialysis is separated from symax	an	larysis because		
	a)	lexical analysis is less complex				
	b)	optimizing the lexical analyzer prov the syntax analyzer.	ide	s more benefits than optimizing		
	c)	lexical analysis has to perform input is platform dependent.		The Other Str. To Suo Matt.		
	d)	all of the above.				
.5)		speed up the Lexical Analyzer, Two- mark the buffer end.	Bu	ffer scheme use the		
	a)	Sentinel by the sentine sentin sentine sentine sentine sentine sentine sentine sentine sentine	)	EOF		
	c)	Null (b)	1)	'\0' ge-mottod to		
(6)	The the	e current token being scanned in the	inj	put is frequently referred to as		
	a)	Terminal Symbol	)	Non-terminal Symbol		
	c)	Lookahead Symbol	1)	Symbol		
7)	Opti	imizing compiler isbodie				
	a)	optimized to occupy less space b	)	optimizes the code		
	c)	take less time to execute	1)	none		
8)	Run	nning time of a program depends on				
	a)	The way the registers and addressin	g n	nodes are used		
	b)	The order in which computations ar	re p	performed Management		
	c)	The usage of machine idioms				
	d) .	All of these		in Bray node in the flow gard		
		Stell a Stell - SN - 19		1) Marans of the appear (in		
9)	In la	abeling algorithm labeling can be don	ne l	by		
	a)	Visiting nodes in top-down order				
	b)	Visiting nodes in bottom-up order				
	c)	Both a and b		in and the state of the state of the		
	d)	None of the above		Sort of the South of the South		

20)	The minimum DFA for (a   b)*a(a   b)*a will have states			
	a)	2 Automa a xol	b)	3. Variation (solve) de la
	c)	4 itself affected from seblyong to	d)	
21)	Whi	ich one of the following is a top-c	lown	parser
	a)	Recursive descent parser	b)	Operator precedence parser.
	c)	An LR(k) parser.	d)	An LALR(k) parser
		n. Ewe-Buffer, schoppe, use, the		
22)	LR	parser is based on		
	a)	Non-backtracking	b)	Shift reduce
	c)	Bottom-up	d)	All above
	THE .	outgot of a Laxical analyze in		
23)		p down parser generates		
	a)	Left -most derivation	b)	right -most derivation
	c)	right-most derivation in reverse	d)	left-most derivation in reverse
24)	TL	al ambyzers new		
24)		most powerful parsing method is		17) Optimizing compiler is
		LL(I) sili sosimilgo (d 900		Canonical LR
	c)	SLR snon (b	a)	LALR
25)	Whi	ch of the following conflicts can	not ar	ise in LR parsing
	a)	shift-reduce		
	c)	shift-shift		
26)	Ever	ry node in the flow graph dominat	tes its	elf seed to these
	a)	Yes	b)	No
		a be done by vd and a		
27)	The	parser obtains a string of tokens f	rom	
	a)	Syntax Analyzer	b)	Semantic Analyzer
	c)	Lexical Analyzer	d)	Code optimization

28)		is the error-recovery strategy a syntactic error.	that a	parser can employ to recover
ogn		Bioglating statistical and the state of the		Danie wede
	a)	Left recursion		Panic mode
	c)	Left factoring	d)	Handle pruning
29)	A ri	ghtmost derivation in reverse can	be obt	cained by
	a)	Left factoring	b)	Left recursion
	c)	Handle pruning	d)	Phrase level recovery
30)	A pa	arse tree showing the values of att	tributes	at each node is called an
	a)	simple parse tree	b)	annotated parse tree
	c)	complex parse tree	d)	none of these
		elimitions are lagol		38) The classes of syntax direction
31)		yntax Directed Definition that use	s synth	esized attributes is called as
	a)	L-attributed definition	b)	s-attributed definition
	c)	Syntax directed definition	d)	Inherited attributed definition
32)		R parser, the function t ments and produces a state.	akes a	state and grammar symbol as
	a)	goto	b)	action
	c)	shift and to not level as some state	d)	accept management as all 104
W-110		and an application by the staff of cools	Educati	
33)	Synt	ax directed translation can be ba	sed on	Inpacto de cedo generator
	a)	Syntax tree only	b)	Parse tree only
	c)	Both a & b	d)	None of the above
34)	Metl	hods used for evaluating semantic	rules a	
	a)	Rule Based methods	b)	Oblivious Methods
	c)	Parse tree Methods	d)	All the above

35)	5) The allocation and deallocation of data objects is managed by the		
	a) operating system pac	ekage b)	compile-time support package
	c) run-time support pac	kage d)	none of the above
36)	A procedure is activation of the same pro		ion can begin before an earlier
	a) non-recursive	b)	recursive
	c) nested	d)	none of the above
	Pluase level recovery		
37)	In an S-attributed SDD, a	ll attributes are _	
	a) synthesized	a(de of attribute	valued walls and same A (08)
	c) Inherited	d)	L-attributed
	none of these		
38)	The classes of syntax dire		
	a) S-attributed Definition	ons b)	L-attributed Definitions
	c) both a& b	d)	None of the above
	s-attributed definition		
39)	If p & q are procedure act are nested.	ivation, then their	lifetimes are either or
	a) overlapping	b)	non-overlapping
	c) overloaded	d)	non-overloaded
40)	In an activation tree, root	represents the act	ivation of the
	a) main program	b)	procedure
	c) function	d)	declaration
	1		
41)	Control stack is used to ke	eep track of Live	Symax (ree only sign
	a) procedure activation	(b)	function activation
	c) program activation	d)	declaration activation
	The parties literature a rela		
42)	The nodes of a syntax tree	e or DAG are stor	red in an of record
	a) stack	b)	list
	c) array	d)	none

43)	Easi	ily recoverable conflict in shift redu	uce p	arser is
	a)	shift/reduce		reduce/reduce
	c)			none
44)	A _	is a record structure with		fields.
	a)	single	b)	triple
	c)	indirect triple	d)	quadruple
45)	A b	inding is the dynamic counter part	of a	
	a)	declaration	b)	procedure
	c)	function	d)	body
46)		optional access link is used to revation records.	fer to	o data held in other
	a)	local	b)	global
	c)	nonlocal	d)	private
47)	Who	en blocks are allocated & deallocat	ed, s	torage can become
	a)	divided	b)	separated
	c)	fragmented	d)	joints
48)		requires all the pointers into	the h	eap to be known.
	a)	marking technique	b)	reference count
	c)	dangling reference	d)	dags
49)	Whi	ich is not issue in design of code ge	enera	tor?
	a)	Target Programs	b)	Input to the code generator
	c)	Register Allocation	d)	Target Machine
50)	A gr	raph representation of three address	state	ement is
	a)	Flow chart	b)	Structure chart
	c)	Flow graph	d)	None of the above