

Examination 2020 under cluster 9 (FAMT)

Program: TE Computer Engineering

Curriculum Scheme: Revised 2016

Examination: Third Year Semester VI

Course Code: CSC602 and Course Name: System Programming & Compiler Construction

Time: 1hour

Max. Marks: 50

Note to the students:- All the Questions are compulsory and carry equal marks .

Q1.	Data structures used in Assembler
Option A:	MOT
Option B:	MNT
Option C:	MNTC
Option D:	MDT
Q2.	Location counter (LC) is used to
Option A:	denote location of target code
Option B:	denote location of source code
Option C:	denote the location of current instruction being executed
Option D:	denote location of branch instruction
Q3.	Declarative statements are
Option A:	used to declare beginning of thr program
Option B:	used to declare storage
Option C:	used to declare end of the program
Option D:	used to debug the program
Q4.	Effective error reporting in Assembler is
Option A:	reporting error after pass II
Option B:	reporting error after pass I
Option C:	during writing Assembly code
Option D:	during debugging the code
Q5.	The technique of back patching is used in
Option A:	two pass assembler
Option B:	one pass assembler
Option C:	Synthesis phase
Option D:	Analysis phase
Q6.	The end of a macro can be represented by the directive.
Option A:	MEND
Option B:	END
Option C:	ENDS
Option D:	ENDD

Q7.	Output of macro processor is
Option A:	Assembly code
Option B:	macro code
Option C:	object code
Option D:	machine code
Q8.	MDT is used to
Option A:	store the body of the macro definitions
Option B:	store the name of the defined macro
Option C:	store the address of the macro name
Option D:	store the arguments to macro definition
Q9.	Which is not a data structure of macro processor
Option A:	Symbol table
Option B:	MNT
Option C:	MDT
Option D:	MNTC
Q10.	Which of the following system software always resides in the main memory ?
Option A:	Text Editor
Option B:	Assembler
Option C:	Linker
Option D:	Loader
Q11.	Which is not a function of a loader
Option A:	allocation
Option B:	translation
Option C:	relocation
Option D:	loading
Q12.	If linked origin is not equal to translated address then relocation is performed by_____.
Option A:	Absolute Loader
Option B:	Loader
Option C:	Linker
Option D:	cross compiler
Q13.	While evaluating a postfix expression, when an operator is encountered, what is the correct operation to be performed?
Option A:	push it directly on to the stack
Option B:	pop 2 operands, evaluate them and push the result on to the stack
Option C:	pop the entire stack
Option D:	ignore the operator

Q14.	What is the result of the given postfix expression? abc^{*+} where $a=1, b=2, c=3$.
Option A:	4
Option B:	5
Option C:	6
Option D:	7
Q15.	The method which merges the bodies of two loops is
Option A:	loop rolling
Option B:	loop Jamming
Option C:	constant folding
Option D:	Loop unrolling
Q16.	Three address statement is abstract form of _____
Option A:	Source program
Option B:	Intermediate code
Option C:	Target program
Option D:	Object Code
Q17.	_____ is used to generate code for boolean expression and flow of control statements in one pass.
Option A:	Backpatching
Option B:	Code-generator
Option C:	Parser
Option D:	Static checker
Q18.	Local and loop optimization in turn provide motivation for
Option A:	Data flow analysis
Option B:	Constant folding
Option C:	Peephole optimization
Option D:	DFA and constant folding
Q19.	A compiler program written in a high level language is called
Option A:	object program
Option B:	machine language program
Option C:	none of these
Option D:	source program
Q20.	The top down parser generates
Option A:	right most derivation
Option B:	right most derivation in reverse
Option C:	left most derivation
Option D:	left most derivation in reverse

Q21.	What goes over the characters of the lexeme to produce a value?
Option A:	Scanner
Option B:	Parser
Option C:	Evaluator
Option D:	Lexical generator
Q22.	The most powerful parser is
Option A:	SLR
Option B:	Canonical LR
Option C:	LALR
Option D:	Operator-precedence
Q23.	Substitution of values for names whose values are constant, is done in
Option A:	loop optimization
Option B:	constant folding
Option C:	local optimization
Option D:	Constant propogation
Q24.	Access time of the symbol table will be logarithmic,if it is implemented by
Option A:	linear list
Option B:	hash table
Option C:	self-organizing list
Option D:	search tree
Q25.	<p>A shift reduce parser carries out the actions specified within braces immediately after reducing,with the corresponding rule of the grammar</p> <pre>s->xxW {print "1"} s->y {print "2"} w->sz {print "3"}</pre> <p>what is the translation of "xxxxyyzz" ?</p>
Option A:	11231
Option B:	11233
Option C:	23131
Option D:	233321