TRUE/FALSE

1.	The first step that programmers follow when they solve problems is to plan the algorithm.					
	ANS: F	PTS:	1	REF:	12	
2.	The final step that prousing the computer.	ogramn	ners follow who	en they	solve problems is to rigorously test the program	
	ANS: T	PTS:	1	REF:	12	
3.	The two most import	ant con	nponents of any	proble	m are the problem's output and its input.	
	ANS: T	PTS:	1	REF:	12	
4.	When analyzing a pro	oblem,	you always sea	rch firs	t for the input, and then for the output.	
	ANS: F	PTS:	1	REF:	12	
5.	The input typically is	stated	as nouns and a	djective	es in the problem specification.	
	ANS: T	PTS:	1	REF:	12	
6.	When determining the problem manually.	e outpu	it, it helps to thi	ink abo	ut the information that you would need to solve the	
	ANS: F	PTS:	1	REF:	12	
7.	Analyzing real-world	l proble	ms is generally	as easy	y as analyzing the problems found in a textbook.	
	ANS: F	PTS:	1	REF:	13	
8.	If you are having trouble analyzing a problem, try reading the problem specification several times, as it is easy to miss information during the first reading.					
	ANS: T	PTS:	1	REF:	13	
9.	Most algorithms begin with an instruction that enters the input items into the computer.					
	ANS: T	PTS:	1	REF:	14	
10.	Most algorithms end	with an	instruction to	print, d	isplay, or store the output items.	
	ANS: T	PTS:	1	REF:	14	
11.	Display, print, and sto	ore refe	r to a file on di	sk, the	printer, and the computer screen, respectively.	
	ANS: F	PTS:	1	REF:	14	

12.	To avoid confusion, it is important that the algorithm is consistent when referring to the input and output items.					
	ANS: T	PTS:	1	REF:	14	
13.	Pseudocode is standa	ardized.				
	ANS: F	PTS:	1	REF:	15	
14.	Unlike a flowchart, p	seudoco	de uses standa	rdized	symbols to visually depict an algorithm.	
	ANS: F	PTS:	1	REF:	15	
15.	. You can draw the flowchart symbols by hand; or, you can use the drawing or shapes feature in a word processor.					
	ANS: T	PTS:	1	REF:	15	
16.	When planning an al	gorithm,	you need to c	reate bo	oth a flowchart and pseudocode.	
	ANS: F	PTS:	1	REF:	15	
17.	For simple algorithm	ns, flowch	harts work just	t fine.		
	ANS: F	PTS:	1	REF:	15	
18.	Not all algorithms re	quire a p	rocessing item	1.		
	ANS: T	PTS:	1	REF:	16	
19.	. Desk-checking is also called pencil-tracing, because the programmer uses a pencil and paper to follow each of the algorithm's instructions.					
	ANS: F	PTS:	1	REF:	18	
20.	. Before you begin the desk-check, you first choose a set of sample data for the input values, which you then use to manually compute the expected output values.					
	ANS: T	PTS:	1	REF:	18	
21.	It is helpful to use a desk-check table when desk-checking an algorithm.					
	ANS: T	PTS:	1	REF:	18	
22.	You can only perform	n a desk-	check using a	n algori	ithm's pseudocode.	
	ANS: F	PTS:	1	REF:	18	
23.	You should test an al data.	gorithm	with invalid d	ata beca	ause users sometimes make mistakes when entering	
	ANS: T	PTS:	1	REF:	20	

MULTIPLE CHOICE

1.	The is the goal of solving the problem.						
	a. yieldb. output			contribution input			
	ANS: B	PTS: 1	REF:	12			
2.	The is the item a. yield b. output	or items needed	c.	e goal. contribution input			
	ANS: D	PTS: 1	REF:	12			
3.	A helpful way to ide printed on paper, dis a. output b. contribution ANS: A		een, or stored c.	yield input			
	ANS: A	P15: 1	KET:	12			
4.	What the user wants stated as and a a. adverbs b. commands		roblem specif c.	yed on the screen, or stored in a file is typically ication. nouns verbs			
	ANS: C	PTS: 1	REF:	12			
5.			the is th c.	m's user wants to see the amount of her annual e annual commission. symbol input			
	ANS: B	PTS: 1	REF:	12			
6.	A helpful way to ide computer will need a. output b. symbols		display, or sto c.	problem specification for what information the ore the output items. yield input			
	ANS: D	PTS: 1	REF:	12			
7.	Suppose that a user wants to see his new weekly pay displayed on the screen. In this context, the words new and weekly are						
	a. adjectivesb. verbs		c. d.				
	ANS: A	PTS: 1	REF:	13			
8.	and effort.	most difficult of	_	solving steps, and it requires a lot of time, patience,			
	a. planningb. desk-check			analysis testing			
	ANS: C	PTS: 1	REF:	13			

9.	The second step in t that, when followed a. program b. algorithm			oblem's i	to plan the, which is the set of instructions input into its output. instructions statements				
	ANS: B	PTS:	1	REF:					
10.	is called false	code bec	ause, althougl		nbles programming language instructions, it cannot				
	be understood by a ca. Binary code	compute	r.	0	Planning code				
	b. Empty code				Pseudocode				
	ANS: D	PTS:	1	REF:	15				
11.	Programmers use to help them while they are planning an algorithm.								
	a. pseudocode		1	c.	templates				
	b. sheets			d.	charts				
	ANS: A	PTS:	1	REF:	15				
12.	Programmers use the pseudocode as a guide when coding the algorithm, which is the step in the problem-solving process.								
	a. second				fourth				
	b. third			d.	fifth				
	ANS: D	PTS:	1	REF:	15				
13.		locode, p	rogrammers a		when planning algorithms.				
	a. pseudocharts				flowcharts				
	b. templates			a.	coding sheets				
	ANS: C	PTS:	1	REF:	15				
14.	Symbols are connected with lines, called								
	a. chartlines			C.	leaders				
	b. flowlines			d.					
	ANS: B	PTS:	1	REF:	15				
15.	The oval symbol in a flowchart is called the symbol.								
	a. start/stop				process				
	b. input/output			d.	flow				
	ANS: A	PTS:	1	REF:	15				
16.	The parallelogram symbol in a flowchart is called a(n) symbol.								
	a. start/stop				process				
	b. input/output			a.	flow				
	ANS: B	PTS:	1	REF:	15				
17.	calculations.	owchart	is called the _		abol and is used to represent tasks such as				
	a. start/stop				process				
	b. input/output			d.	flow				
	ANS: C	PTS:	1	REF:	15				

18.	When an algorithm la. codeb. a processor	becomes	s more complex	c.	ogram's logic may be easier to see in pseudocode a flowchart		
	ANS: D	PTS:	1	REF:	15-16		
19.	A item represents an intermediate value that the algorithm uses when processing the input into the output.						
	a. calculatingb. data				processing storage		
	ANS: C	PTS:	1	REF:	16		
20.	The term refers to the fact that the programmer reviews the algorithm while seated at his or her desk rather than in front of the computer.						
	a. desk-checkingb. program-checking	ng			desk-tracing hand-checking		
	ANS: A	PTS:	1	REF:	18		
21.	You an algorithm to verify that it is not missing any steps, and that the existing steps are corr and in the proper order.						
	a. desk-traceb. desk-check				program-check hand-check		
	ANS: B	PTS:	1	REF:	18		
22.	data is data tha a. Invalid b. Checked	t the alg	orithm is expec	c.	e user to enter. Unchecked Valid		
	ANS: D	PTS:	1	REF:	20		
23.	data is data tha a. Invalid b. Checked	t the alg	gorithm is not ex	c.	g the user to enter. Unchecked Valid		
	ANS: A	PTS:	1	REF:	20		