TRUE/FALSE

1.	The primary design goal of early programming languages was efficiency of execution.						
	ANS: T	PTS:	1 RE	F: 27			
2.	FORTRAN's designers attempted to improve the readability of programs by making the constructs look like ordinary written English.						
	ANS: F	PTS:	1 RE	F: 27			
3.	The most importan	nt design cr	iterion of the last 2	25 years has been	the goal of efficiency.		
	ANS: F	PTS:	1 RE	F: 28			
4.	Design goals for programming languages have not changed through the years.						
	ANS: F	PTS:	1 RE	F: 28			
5.	The ease with whi called its regularity		ex process or struc	ture can be expres	ssed in a programming language is		
	ANS: F	PTS:	1 RE	F: 29			
6.	Python uses staten	nent termina	ators such as the s	emicolon.			
	ANS: F	PTS:	1 RE	F: 29			
7.	Early dialects of FORTRAN supported static storage allocation only.						
	ANS: T	PTS:	1 RE	F: 29			
8.	The presence of explicit data types in variable declarations in a language allows for more concise code						
	ANS: F	PTS:	1 RE	F: 30			
9.	When applied to data types, value semantics means that assignment produces two references to the same object.						
	ANS: F	PTS:	1 RE	F: 32			
10.	Java demonstrates data types.	a lack of or	rthogonality in its	different handling	of primitive data types and object		
	ANS: T	PTS:	1 RE	F: 32			
11.	Pascal uses a dedic	cated return	statement for retu	rning values from	functions.		
	ANS: F	PTS:	1 RE	F: 32			

12.	Irregularities in a language may be the result of maintaining backward compatibility with a prior version of the language.						
	ANS: T	PTS:	1	REF:	33		
13. Java is considered to be a semantically safe language.							
	ANS: T	PTS:	1	REF:	33		
14. A language that adds new features via additional releases is considered to be extensible.							
	ANS: T	PTS:	1	REF:	34		
15.	5. Macros can be used to improve the readability of a language.						
	ANS: T	PTS:	1	REF:	34-35		
16.	C was chosen as the	base lar	nguage for C++	becaus	se it contained class constructs.		
	ANS: F	PTS:	1	REF:	35-36		
17.	One of the design go	als of C	++ was that it v	would b	be highly portable.		
	ANS: T	PTS:	1	REF:	36		
18.	C++ was not intende	d to und	lergo incremen	tal deve	elopment.		
	ANS: F	PTS:	1	REF:	36		
19.	O. C++ was designed to be a multiparadigm language that would not enforce any one style of programming.						
	ANS: T	PTS:	1	REF:	36		
20.	20. C++ is an open source language that has never had a commercial release.						
	ANS: F	PTS:	1	REF:	37		
21.	1. C++ does not have a formal language definition.						
	ANS: F	PTS:	1	REF:	37		
22.	Python was designed Perl.	l to brid	ge the gap betw	veen a s	systems language like C and a shell language like		
	ANS: T	PTS:	1	REF:	38		
23.	Python is type-check	ed at ru	ntime.				
	ANS: T	PTS:	1	REF:	40		
24.	4. When no type errors are caught during execution, we can infer that they do not exist.						
	ANS: F	PTS:	1	REF:	40		

25.	5. A program written in Python will require many more lines of code than if it were written in C++.						
	ANS: F	PTS:	1	REF:	40		
MUL	ГІРЬЕ СНОІСЕ						
1.	The quality of a lang concisely, and quickles. efficiency b. regularity			c.	orthogonality writability		
	ANS: D	PTS:	1	REF:	27		
2.	Which of the following a. Lisp b. ALGOL	ng is a t	functional langu	c.	Python FORTRAN		
	ANS: A	PTS:	1	REF:	28		
3.	Which of the following a. C++ b. C	ng is an	object-oriented	c.	age? FORTRAN Algol		
	ANS: A	PTS:	1	REF:	28		
4.	Attempts to make proa. better documentab. strong data typin	ation	ing languages	c.	liable led to the development of improved writability increased efficiency		
	ANS: B	PTS:	1	REF:	28		
5.	 5. A programming language's expressiveness a. refers to how easy it is to express complex processes b. refers to the efficiency of the code c. refers to how well its features are integrated d. refers to its level of generality 						
	ANS: A	PTS:	1	REF:	29		
6.	A language achieves a. orthogonality b. efficiency	b <u>y</u>	y avoiding spec	c.	es in the use of constructs. generality uniformity		
	ANS: C	PTS:	1	REF:	30		
7.	A language is said to way, with no unexpe a. generality b. orthogonality			c.	ts constructs can be combined in any meaningful uniformity efficiency		
	ANS: B	PTS:	1	REF:	31		
8.	A language is said to and different things l			if i	t has a design in which similar things look similar,		

	a. generalityb. uniformity		c. d.	orthogonality efficiency		
	ANS: B	PTS: 1	REF:	31		
9.	lack of in the la a. uniformity		c.	orthogonality		
	b. generality	PETC 1		efficiency		
	ANS: B	PTS: 1	REF:	31		
10.	The fact that C does in the language.	not allow array types to	e return value of a function indicates a lack of			
	a. generality b. uniformity			orthogonality efficiency		
	ANS: C	PTS: 1	REF:	31		
11.	 Which of the following is an example of lack of generality in a language? a. In C, arrays cannot be directly compared using the == operator. b. In Pascal, functions can return only scalar or pointer types as values. c. In C, local variables can only be defined at the beginning of a block. d. In Pascal, return statements in functions look like assignments to variables. 					
	ANS: A	PTS: 1	REF:	31		
12.	Because C++ require said to lack a. orthogonality b. security	es a semicolon after a c	c.	finition but not after a function definition, C++ is reliability uniformity		
	ANS: D	PTS: 1	REF:			
13.	The irregularities of with .	primitive types and ref	erence	types in Java is the result of the designer's concern		
	a. efficiency b. orthogonality			regularity generality		
	ANS: A	PTS: 1	REF:	33		
14.	Which of the following a. Generality b. Regularity	ng is most closely rela	c.	eliability? Security Uniformity		
	ANS: C	PTS: 1	REF:	33		
15.		events a programmer fition of the language is	said to c.			
	ANS: C	PTS: 1	REF:	33-34		
16.	A language that allow a. uniformity	vs the user to add featu		t is said to have the property of extensibility		

	b. regularity		d.	reliability				
	ANS: C	PTS: 1	REF:	34				
17.	A specifies the a. compiler b. macro	e syntax of a pio	c.	expands to other standard code. function procedure				
	ANS: B	PTS: 1	REF:	34				
18.	The first implement a. a compiler nam b. a preprocessor i	ed Cfront	c.	an interpreter named Cfront a compiler named Cpre				
	ANS: A	PTS: 1	REF:	36				
19.	C++ a. is an object-oriented language b. is a functional type language c. does not have an accepted set of standards d. is not widely used							
	ANS: A	PTS: 1	REF:	37				
20.	 a. scientists and engineers and other non-programmers b. expert programmers c. large scale systems d. time-critical systems 							
	ANS: A	PTS: 1	REF:	38				
21.	Which of the follow a. simplicity b. portability	ving properties	c.	by Python? extensibility efficiency				
	ANS: D	PTS: 1	REF:	38-39				
22.	All of the following a. Ada b. C		c. d.	C++ Python				
	ANS: D	PTS: 1	REF:	39				
23.	Of the following landa. Python b. Lisp	iguages, which	is a statically ty c. d.	· · ·				
	ANS: D	PTS: 1	REF:	39				
24.	a. it is based on a easily extendedb. it has a very ricc. it is highly port	small but powe h set of data typ able to multiple	rful set of primit oes platforms	e because rive operations and data types that can l	be			
	d. it does not support advanced abstractions							

ANS: A PTS: 1 REF: 38

25. The real benefit of deferring type checking until runtime is ____.
a. greater runtime efficiency c. higher program reliability a. greater runtime efficiencyb. greater programmer efficiency d. higher program safety

ANS: B PTS: 1 REF: 40