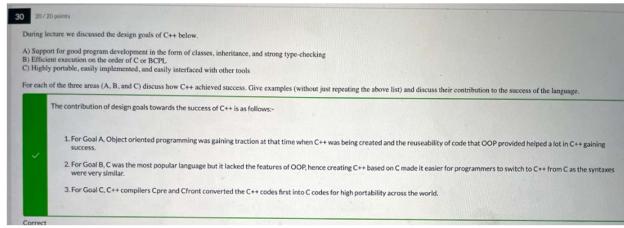
1.	A language is considered to be if you can add features to it. a. Extensible	
2.	You can only create a new language after you write a formal specification a. False	
3.	Γhere are no new languages being created a. False	
4.	There is no generally accepted formal method for describing semantics a. True	
5.	A notation for communicating to a computer what we want to do a. Programming language	
	A language lacks this when dissimilar things look or act similarly a. Uniformity	
	An interpreter executes a program directly a. True	
	n the C language, functions are defined the same way that math defines functions a. False	
9.	n class we discussed the design goals of various languages. This question focusses on Java. Discuss (3) aspects of Java that contributed to its success and explain how they contributed to the language's adaptation across so many platforms	
	a. It was based on C/C++ which makes its code easy to read/write/understandb. It is highly secure as it eliminated pointers, it promoted oop which at the time was	
	getting tractions	
	c. It is highly portable since it uses Java VM and making its bytecode acceptable on every platform.	
	 Additionally, upon it's inception web developments was a new concept and the programmers needed to run their programs on clients machines regardless of the platform where java came in handy 	
10.	The reason a language defines virtual machines (like the Java VM) is to target a single physical CPU.	
	a. False	
11.	There is no difference between a complier and an interpreter a. False	
12.	Writability is the primary factor in determining whether a language is successful a. False	
13.	Some languages needed better hardware performance before they become practical to use a. True	
14.	Both complier and an interpreter translate programs	
15.	a. True Abstraction is a technique to manage complexity a. Ture	
16.	Jniformity mean a design in which similar things look and act similar a. True	
17.	A language is considered to be if it prevents a programmer from compiling or executing any statements or expressions that violate the definition of the language. a. Semantically safe	
18.	t is possible to focus too much on a particular design goal or goals a. True	
19.	A language that does not have a defined standard is immune from problems of ambiguity	

- a. False
- 20. Ambiguity in a programming language is desired feature
 - a. False
- 21. A language that is extremely expressive is also always extremely reliable
 - a. False
- 22. Language paradigms are a form of syntactic sugar
 - a. False
- 23. Languages that satisfy the criterion of regularity are said to adhere to the principle of least astonishment
 - a. True
- 24. Backwards compatibility with another language may be valid cause of irregularity
 - a. True
- 25. Translates an entire program into executable code and does not execute it
 - a. Compiler
- 26. (2parts) 1 What is the difference between programmer efficiency and runtime efficiency?
 - 2 Which is more important? Explain your answer
 - a. 1 Programmer efficiency The ease of a programmer to read, write and understand the complexities of a program code
 - Runtime efficiency A program can take seconds/minutes/hours/ years to execute, the time taken by a program to execute is known as runtime efficiency
 - b. Run time is more important
 - i. Its better for productivity
- 27. The output of an interpreter is something that can be executed later
 - a. False
- 28. When designing a new language there is no benefit in starting from an existing language
 - a. False
- 29. Python is not suitable for large or time-critical systems
 - a. True
- 30. C++



- 31. Match the vocabulary
 - a. Assembler A program that translate the symbolic assembly language code to binary machine code
 - b. Machine language The binary form of instructions for a CPU
 - c. Assembly Opcodes Basic control abstraction
 - d. Syntax The structure of a language

- e. Abstraction Technique to manage complexity
- f. Variable Basic data abstraction
- g. Array Structured data abstraction
- h. Thread unit control abstraction
- i. Semantics The meaning of a language
- j. Branch Structured control abstraction
- k. Assembly language Mnemonic symbols to represent binary machine codes
- I. Interface Unit data abstraction
- 32. If a language is _____, its constructs do not behave differently in different contexts
 - a. Orthogonal
- 33. Using a virtual machine as part of a language design provides better hardware performance
 - a. False
- 34. Matching
 - a. Uniformity Similar things look and act similar
 - b. Regularity Refers to how well the features of a language are integrated
 - c. Extensibility Allows new features to be added
 - d. Orthogonality Constructs do not behave differently in different contexts
 - e. Orthogonality Refers to the consistency of appearance and behavior of language constructs
 - f. Generality Avoids special cases
- 35. Certified as the first high-level language
 - a. FORTRAN