CUIZIZZ Worksheets		Name			
JIT _.	_compiler_quizz_fontys	Class			
Tota	al questions: 9	Olass			
	rksheet time: 10mins	Date			
Inst	ructor name: gildetest gilde				
1.	Which of the following is a key feature of an interp	oreter?			
	a) Executes machine code directly without any translation	b) Translates the entire program into machine code at once			
	c) Compiles the entire source code before execution	d) Translates and executes code line-by-line			
2.	What is one major disadvantage of using an ir	nterpreter?			
	a) It cannot handle dynamic code	b) It requires the source code to be pre-compiled			
	c) It slows down execution because code is translated at runtime	d) It uses too much memory during execution			
3.	Which of the following programming languages commonly use interpreters?				
	a) Python	b) Java			
	c) C++	d) Assembly			
4.	What is the main difference between a compiler a	and an interpreter?			
	a) A compiler is slower in execution compared to an interpreter	b) A compiler translates the entire program before execution, while an interpreter translates code line-by-line			
	c) A compiler works only with low-level languages, while an interpreter is used for high-level languages	d) A compiler directly executes the machine code without producing any intermediate results			
5.	Which of the following is NOT an advantage of us	ing a compiler?			
	a) Compilation provides better error detection during the execution	b) The compiled program runs faster			
	c) The entire program is translated at once, so	d) The compiled code is independent of the			

source code

no need for runtime translation

6.	Which of the following languages is commonly cor	npil	ed?
	a) C	b)	Python
	c) PHP	d)	JavaScript
7.	What does a Just-In-Time (JIT) compiler do?		
	a) It compiles the entire program at the beginning of execution	b)	It compiles the code only when the source code changes
	c) It interprets code line-by-line without compiling	d)	It compiles parts of the code at runtime, just before execution
8.	Which of the following is an advantage of using a	JIT (compiler?
	a) It generates a smaller executable file	b)	It avoids the need for compilation altogether
	c) It reduces the memory usage of the program	d)	It improves execution speed by dynamically optimizing code during runtime
9.	In which programming environment is JIT compilate	tion	commonly used?
	a) Assembly Language	b)	Python Interpreter
	c) C++ Runtime	d)	Java Virtual Machine (JVM)

Answer Keys

- d) Translates and executes
 code line-by-line
- c) It slows down execution
 because code is
 translated at runtime
- 3. a) Python

- 4. b) A compiler translates the entire program before execution, while an interpreter translates code line-by-line
- a) Compilation provides better error detection during the execution
- 6. a) C

- 7. d) It compiles parts of the code at runtime, just before execution
- 8. d) It improves execution speed by dynamically optimizing code during runtime
- 9. d) Java Virtual Machine (JVM)

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