Tota Wor	Z Nix & flakes with Docker al questions: 18 rksheet time: 14mins ructor name: 2zmspc2qbf apple_user	Name Class Date
1.	<ul><li>What are the three main components of Nix?</li><li>a) Programming language, package manager, Linux distribution</li><li>c) Operating system, package manager, cloud service</li></ul>	<ul><li>b) Command-line interface, package builder, cloud storage</li><li>d) Package manager, virtual machine, IDE</li></ul>
2.	<b>True or False:</b> Nix is a general-purpose programming laa) False	language.
3.	What type of evaluation does Nix use?  a) Parallel evaluation  c) Sequential evaluation	<ul><li>b) Lazy evaluation</li><li>d) Eager evaluation</li></ul>
4.	What happens to an expression in Nix that is never access  a) It is evaluated with a default value.  c) It throws an error	b) It causes the program to crash. d) It is not evaluated.
5.	Nix is a purely functional language, meaning it lacks Ans	
6.	What will the following Nix code output?  let attrs = { a = 15; b = builtins.throw "Oh no!"; };  in "The value of 'a' is \${toString attrs.a}".  a) "Oh no!"	b) The value of 'a' is 15
	c) The code will not compile.	d) Error: undefined reference to b

7.	How does Nix differ from traditional package managers like dpkg or rpm?		
	a) It modifies the global system state.	b) It directly integrates with Docker containers.	
	c) It uses the Nix store to isolate package dependencies	d) It does not support versioning of packages.	
8.	True or False: In Nix, different versions of a package are stored in the same location.		
	a) True	b) False	
9.	What is a "derivation" in Nix?		
	a) A special command in the Nix shell	b) A programming construct for exception handling	
	c) A definition for how to build a package, including dependencies and instructions	d) A global configuration file for Nix	
10.	Which directory typically contains the Nix store?		
	a) /nix/store	b) /var/lib/nix	
	c) /usr/local	d) /opt/nix	
11.	1. True or False: NixOS uses imperative configuration files to define the system state		
	a) False	b) True	
12.	What is a key benefit of NixOS's declarative approach	?	
	a) It ensures consistent system configuration and allows atomic upgrades	b) It avoids using configuration files	
	c) It enables a GUI-based setup wizard	d) It eliminates the need for package dependencies	

13.	What are flakes in Nix?			
	a) A graphical interface for NixOS	b)	An alternative to derivations for managing dependencies	
	c) A replacement for the Nix package manager	d)	Experimental features to simplify sharing and maintenance.	
14.	Name an attribute typically included in a flake			
	a) inputs	b)	settings	
	c) versions	d)	configs	
15.	True or False: Flakes are an experimental feature			
	a) true	b)	false	
16.	What does Nix provide in a Docker environment?			
	a) Reproducible runtime environments	b)	Reproducible build environments	
	c) Advanced networking capabilities			
17.	Using Nix can help eliminate untrusted dependencies			
	a) true	b)	false	
18.	What is a key security advantage of using Nix with Docker?			
	a) It includes all dependencies automatically	b)	It ensures that only specified dependencies are included	
	c) It allows the use of third-party dependencies without verification	d)	It bypasses the need for Dockerfiles	