1.	Which phase of the Twelve-Factor Methodology contains Port binding?	1/1 point
	○ Code	
	Operate	
	Deploy	
	○ Configure	
	 Correct Correct. Deploy phase of the delivery lifecycle contains: Config, Backing services, Processes, and Port binding. 	
2.	What makes an application concurrent?	1/1 point
	O It should contain the same backend services across environments	
	It should be stateless	
	O It should have a minimal process start time	
	O It should store config in environment variables	
	Correct Correct. If processes are stateless and share nothing, an application can start additional processes to scale horizontally and handle the additional workload without creating interdependencies among processes.	
3.	In a microservice architecture, you should	1/1 point
	Create interdependency among services	
	Scale all services together	
	Use a different technology stack for each service	
	O Deploy all services together	
	 Correct Correct. Teams can choose even different programming languages for different components as they are dependent on each other via an API endpoint. 	
		4/4
4.	Select the correct answer that completes this sentence:	1/1 point
	Monolith application has components.	
	O Independent	
	○ Scalable	
	● Interconnected	
	Reusable	
	Correct Correct. A monolithic application has all or most of its functionality within a single process. Making them tightly connected and dependent on each other.	

5.	Which component of services design in an SOA architecture defines how the service provider and service consumer should interact?	1/1 point
	Own storage	
	Contract	
	O Implementation	
	O Interface	
	 Correct Correct. A contract defines how the service provider and service consumer should interact. 	
6.	What is the purpose of Backend For Frontend?	1/1 point
	O Loading one interface that never reloads	
	Customized user experiences	
	O Service discovery	
	Refactoring in stages	
	Correct Correct. The BFF pattern allows developers to create and support one backend type per user interface using the best options for that interface rather than trying to support a generic backend that works with any interface but may negatively impact frontend performance.	
7.	What is the purpose of the Strangler pattern? Simplifies the front-end experience Supports refactoring in stages Combine functional domains Helps with third-party API integrations	1/1 point
	Correct Correct. With the Strangler pattern, you use the structure of a web application to split an application into multiple functional domains and replace those domains with a new microservices-based implementation for one domain at a time.	
8.	Larger services should be broken into smaller services when:	1/1 point
	Automation is required	
	Refactoring is required	
	Common data model becomes overly complex	
	Functional reusability is required	
	 Correct Correct. If your data model becomes too broad, it is time to split the service and functionally segregate them. 	

9.	What is the requirement of Microservices?	1/1 point
	O Its own implementation of auxiliary services like loggings, security, throttling, and so on	
	Independent storage	
	O Coarse-grained functionality	
	Manual deployment process	
	Correct Correct. SOA and microservices are both interested in building reusable individual components that can be consumed by other applications. But each microservice requires independent data storage, such as the bounded context.	
10.	What is the requirement of a development and production environment?	1/1 point
	O Different source control	
	Similar backing services across the environments.	
	O Different dependencies	
	Embedded access details in code	
	Correct Correct. If you use a MySQL database in production, you should use the same version of MySQL database in your development environments.	