1. Which of the following does NOT represent one of the three main Cloud Service Models referred to in the course? **1 / 1 point**

- ○ IaaS
- ◉ CaaS
- ○ SaaS
- ○ PaaS

Correct
CaaS can refer to Communications-as-a-Service, Cloud-as-a-Service, or Computing-as-a-Service. But it is not one of the three main Service Models for Cloud in this course.

2. Which one of the provided options is true for Infrastructure-as-a-Service? **1 / 1 point**

- ○ Cloud provider configures the infrastructure which is managed and maintained by the user/customer organization
- ○ Cloud provider manages the physical resources, the platform resources, applications, and data
- ◉ Cloud provider owns, manages, and maintains the physical resources
- ○ Cloud provider manages the physical resources, operating systems, development tools, databases, and business analytics

Correct
In Infrastructure-as-a-Service, the cloud provider manages the data centers, cooling, power, networking, security, servers, and storage.

3. Which are some of the key components of cloud Infrastructure-as-a-Service? *Select two.* **0 / 1 point**

- ☐ IaaS providers manage the hypervisors and end-users provision the virtual instances
- ☐ IaaS providers deploy the middleware and install required applications on the virtual machines
- ☐ IaaS providers manage the hypervisors and provision virtual instances
- ☑ IaaS providers manage large data centers that contain the physical machines required to power the various layers of abstraction on top of them

Correct
In most IaaS models, end users do not interact directly with the physical infrastructure but experience it as a service provided to them.

4. Which of the following are essential characteristics of Platform-as-a-Service? *Select two.* **1 / 1 point**

- [x] PaaS offerings support middleware capabilities that assists developers by reducing the amount of code that must be written to expand the application's functional capabilities

Correct
PaaS offerings support a range of middleware capabilities, such as application servers, database management systems, integration services, business process management systems, rules engines, and complex event processing systems.

- [ ] Organizations who opt for PaaS still need to configure supporting technologies such as load balancers and databases
- [x] PaaS clouds provide services and APIs that help developers deliver elastically scalable and highly available cloud applications

Correct
PaaS clouds typically include a variety of capabilities such as APIs for distributed caching, queuing and messaging, file and data storage, workload management, user identity, and analytics, thus eliminating the need to integrate disparate components.

- [ ] In a PaaS model, the provider also takes responsibility for the application code and its maintenance

5. Which one of the following is a key characteristic of Software-as-a-Service? **1 / 1 point**

- (•) Ensure every user has access to the same, centrally located, infrastructure and application code
- ( ) SaaS services do not provide options for user customization
- ( ) Security, compliance, and maintenance of the software are the responsibilities of the user
- ( ) Single tenant architecture

Correct
Infrastructure and application code—are all maintained centrally and accessed by all users.

6. Which of these statements is a characteristic of Public Clouds? 1 / 1

- ○ The cloud provider provisions the resources and services as needed by individual users
- ○ A public cloud provides a dedicated pool of resources to each of its multiple users
- ○ Resources are assigned as per estimated need decided at the time of subscribing for the service
- ◉ A public cloud is a virtualized multi-tenant architecture

Correct
Public cloud is a virtualized multi-tenant architecture that enables users to share computing resources residing outside their firewalls.

7. Which of the following statements is NOT a correct statement about Private clouds? 1 / 1

- ○ VPC is an example of a type of Private Cloud
- ◉ Private clouds can only be deployed on-premise, in an organization's own datacenter
- ○ Private Clouds can be implemented internally or externally
- ○ Private Clouds are suitable for workloads that require maximum control and security

Correct
Private clouds can be deployed on-premise as well as over a logically isolated part of a public cloud.

8. Which of these statements are true of Virtual Private Clouds (VPCs)? *Select two.* 0 / 1 point

- ☐ VPC allows all users of the shared public cloud to access resources in the VPC on need basis; it also allows users of the VPC to access resources of the public cloud
- ☐ VPCs are provisioned in a logically isolated part of a shared public cloud
- ☑ The VPC infrastructure is owned, managed, and operated by the public cloud service provider

Correct
While the infrastructure is tailored to an individual organization's unique needs, it is still owned, managed, and operated by the public cloud service provider.

- ☑ VPCs may be provisioned over a cloud service provider's infrastructure, but the infrastructure is owned, managed, and operated by the enterprise

9. If an organization needs to run a highly sensitive and mission critical application with unpredictable performance and capacity requirements, which of the following models would best meet its requirements? **1 / 1 point**

- (●) Hybrid Cloud
- ( ) On-premise Data Centers
- ( ) Public Cloud
- ( ) Private Cloud

Correct
With a Hybrid Cloud, organizations can choose to run their mission-critical applications on the private cloud while leveraging additional public cloud capacity to accommodate spikes in demand for their application.

10. Which of the following statements about Hybrid Cloud is NOT correct? **1 / 1 point**

- (●) Hybrid clouds are only suitable for workloads involving Infrastructure-as-a-Service
- ( ) Hybrid clouds can prevent lock-in to a single Cloud Provider
- ( ) Hybrid cloud is a computing environment that connects an organization's on-premise private cloud and third-party public cloud into a single flexible infrastructure
- ( ) Hybrid Clouds allow organizations to leverage the additional public cloud capacity when a workload running on the private cloud has a spike in demand

Correct
Hybrid clouds are also being leveraged for other opportunities such as Software-as-a-Service integration, Data and AI integration, enhancing legacy apps, and VM migration.