A. They are not restricted to the same data center or the same racks.
B. They are not restricted to the name rack but restricted to the same data center.
C. They are restricted to the same racks and data centers.
D. They are not restricted to the same rack but restricted to same switches.

Correct Answer: A
Explanation:
A virtual area network (VLAN) can span any networks within a data center, or it can span across different physical locations and data centers.

QUESTION 67
What must be secured on physical hardware to prevent unauthorized access to systems?

A. BIOS
B. SSH
C. RDP
D. ALOM

Correct Answer: A
Explanation:
BIOS is the firmware that governs the physical initiation and boot up of a piece of hardware. If it is compromised, an attacker could have access to hosted systems and make configurations changes to expose or disable some security elements on the system.

QUESTION 68
What type of PII is regulated based on the type of application or per the conditions of the specific hosting agreement?

A. Specific
B. Contractual
C. regulated
D. Jurisdictional

Correct Answer: B
Explanation:
Contractual PII has specific requirements for the handling of sensitive and personal information, as defined at a contractual level. These specific requirements will typically document the required handling procedures and policies to deal with PII. They may be in specific security controls and configurations, required policies or procedures, or limitations on who may gain authorized access to data and systems.

QUESTION 69
Which of the following security technologies is commonly used to give administrators access into trust zones within an environment?

A. VPN
B. WAF
C. IPSec
D. HTTPS

Correct Answer: A
Explanation:
Virtual private networks (VPNs) are commonly used to allow access into trust zones. Via a VPN, access can be controlled and logged and only allowed through secure channels by authorized users. It also adds an additional layer of encryption and protection to communications.

QUESTION 70
Which concept BEST describes the capability for a cloud environment to automatically scale a system or application, based on its current resource demands?

A. On-demand self-service
B. Resource pooling
C. Measured service
D. Rapid elasticity

Correct Answer: D
Explanation:
Rapid elasticity allows a cloud environment to automatically add or remove resources to or from a system or application based on its current demands. Whereas a traditional data center model would require standby hardware and substantial effort to add resources in response to load increases, a cloud environment can easily and rapidly expand to meet resources demands, so long as the application is properly implemented for it.

QUESTION 71
If you're using iSCSI in a cloud environment, what must come from an external protocol or application?

A. Kerberos support
B. CHAP support
C. Authentication
D. Encryption

Correct Answer: D
Explanation:
iSCSI does not natively support encryption, so another technology such as IPsec must be used to encrypt communications.

QUESTION 72
Which of the following pertains to a macro level approach to data center design rather than the traditional tiered approach to data centers?

A. IDCA
B. NFPA
C. BICSI
D. Uptime Institute

Correct Answer: A
Explanation:
The standards put out by the International Data Center Authority (IDCA) have established the Infinity Paradigm, which is intended to be a comprehensive data center design and operations

framework. The Infinity Paradigm shifts away from many models that rely on tiered architecture for data centers, where each successive tier increases redundancy. Instead, it emphasizes data centers being approached at a macro level, without a specific and isolated focus on certain aspects to achieve tier status.

QUESTION 73
What does the REST API support that SOAP does NOT support?

A. Caching
B. Encryption
C. Acceleration
D. Redundancy

Correct Answer: A
Explanation:
The SOAP protocol does not support caching, whereas the REST API does.

QUESTION 74
Why does a Type 1 hypervisor typically offer tighter security controls than a Type 2 hypervisor?

A. A Type 1 hypervisor also controls patching of its hosted virtual machines ensure they are always secure.
B. A Type 1 hypervisor is tied directly to the bare metal and only runs with code necessary to perform its specific mission.
C. A Type 1 hypervisor performs hardware-level encryption for tighter security and efficiency.
D. A Type 1 hypervisor only hosts virtual machines with the same operating systems as the hypervisor.

Correct Answer: B
Explanation:
Type 1 hypervisors run directly on top of the bare metal and only contain the code and functions required to perform their purpose. They do not rely on any other systems or contain extra features to secure.

QUESTION 75
Which of the following are the storage types associated with PaaS?

A. Structured and freeform
B. Volume and object
C. Structured and unstructured
D. Database and file system

Correct Answer: C

QUESTION 76
Which of the following threat types can occur when baselines are not appropriately applied or unauthorized changes are made?

A. Insecure direct object references
B. Unvalidated redirects and forwards
C. Security misconfiguration

D. Sensitive data exposure

Correct Answer: C
Explanation:
Security misconfigurations occur when applications and systems are not properly configured or maintained in a secure manner. This can be caused from a shortcoming in security baselines or configurations, unauthorized changes to system configurations, or a failure to patch and upgrade systems as the vendor releases security patches.

QUESTION 77
What is the data encapsulation used with the SOAP protocol referred to?

A. Packet
B. Envelope
C. Payload
D. Object

Correct Answer: B
Explanation:
Simple Object Access Protocol (SOAP) encapsulates its information in what is known as a SOAP envelope and then leverages common communications protocols for transmission.

QUESTION 78
Which of the following threat types can occur when an application does not properly validate input and can be leveraged to send users to malicious sites that appear to be legitimate?

A. Unvalidated redirects and forwards
B. Insecure direct object references
C. Security miscomfiguration
D. Sensitive data exposure

Correct Answer: A
Explanation:
Many web applications offer redirect or forward pages that send users to different, external sites. If these pages are not properly secured and validated, attackers can use the application to forward users off to sites for phishing or malware attempts. These attempts can often be more successful than direct phishing attempts because users will trust the site or application that sent them there, and they will assume it has been properly validated and approved by the trusted application's owners or operators. Security misconfiguration occurs when applications and systems are not properly configured for security--often a result of misapplied or inadequate baselines. Insecure direct object references occur when code references aspects of the infrastructure, especially internal or private systems, and an attacker can use that knowledge to glean more information about the infrastructure. Sensitive data exposure occurs when an application does not use sufficient encryption and other security controls to protect sensitive application data.

QUESTION 79
Which publication from the United States National Institute of Standards and Technology pertains to defining cloud concepts and definitions for the various core components of cloud computing?

A. SP 800-153

B. SP 800-145
C. SP 800-53
D. SP 800-40

Correct Answer: B
Explanation:
NIST Special Publications 800-145 is titled "The NIST Definition of Cloud Computing" and contains definitions and explanations of core cloud concepts and components.

QUESTION 80
What is the biggest negative to leasing space in a data center versus building or maintain your own?

A. Costs
B. Control
C. Certification
D. Regulation

Correct Answer: B
Explanation:
When leasing space in a data center, an organization will give up a large degree of control as to how it is built and maintained, and instead must conform to the policies and procedures of the owners and operators of the data center.

QUESTION 81
Which aspect of archiving must be tested regularly for the duration of retention requirements?

A. Availability
B. Recoverability
C. Auditability
D. Portability

Correct Answer: B
Explanation:
In order for any archiving system to be deemed useful and compliant, regular tests must be performed to ensure the data can still be recovered and accessible, should it ever be needed, for the duration of the retention requirements.

QUESTION 82
Which of the following represents a minimum guaranteed resource within a cloud environment for the cloud customer?

A. Reservation
B. Share
C. Limit
D. Provision

Correct Answer: A
Explanation:
A reservation is a minimum resource that is guaranteed to a customer within a cloud environment. Within a cloud, a reservation can pertain to the two main aspects of computing: memory and processor. With a reservation in place, the cloud provider guarantees that a cloud customer will always have at minimum the necessary resources available to power on and operate any of their services.