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VMware Cloud Foundation 9.0 Architect

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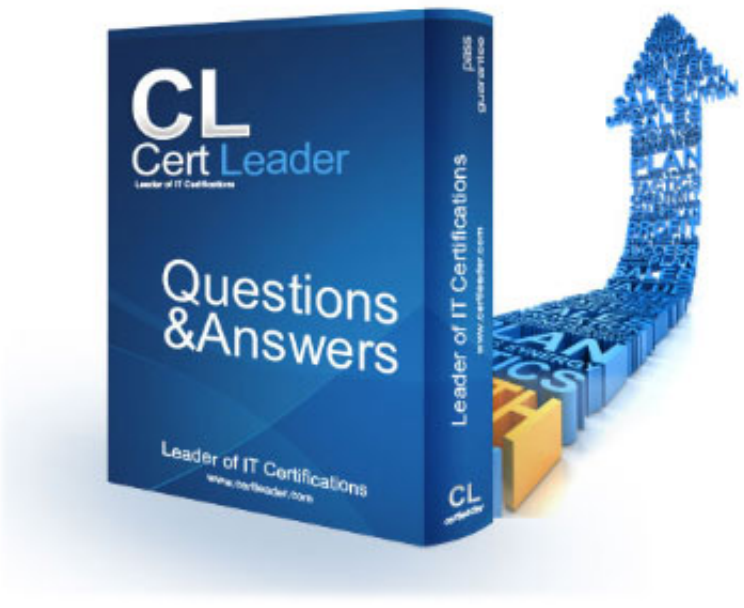

NEW QUESTION 1
An architect is designing a VMware Cloud Foundation (VCF) solution for a customer. During the discovery phase, the customer outlined the following availability requirements:
? Business-critical workloads: RPO = 2 hours
? Infrastructure components: RTO = 8 hours
Based on this context, what does the RTO metric represent?

A. The maximum allowable time within which a system or service must be restored to a usable state
B. The maximum amount of data loss that is considered acceptable during a failure
C. The minimum volume of data loss tolerated in the event of a disruption
D. The minimum acceptable duration required to recover a service to an operational state

Answer: A

NEW QUESTION 2
As a part of designing the VMware Cloud Foundation (VCF) Operations deployment, the architect must ensure that VCF Operations is capable of monitoring the customer's infrastructure made up of a central datacenter and multiple remote sites in different countries.
During a design workshop, the following requirements were identified:
? REQ001: Corporate IT users must be able to review performance, alerts, and capacity details from a single management point.
? REQ002: The monitoring solution must support local data collection at remote sites to prevent data loss from unstable WAN connections.
? REQ003: The monitoring solution must comply with local data sovereignty regulations.
Which deployment model fulfills all design requirements?

A. Single VCF fleet with Cloud Proxies in each remote site
B. Each remote site will be its own VCF fleet.
C. All remote sites will be a single VCF fleet.
D. A single fleet with multiple VCF instances

Answer: A

NEW QUESTION 3
As part of the initial design workshop, one of the customer stakeholders has stated the following:
• All Virtual Machines must be encrypted.
How would the architect classify this statement?

A. A Risk
B. A Constraint
C. A Requirement
D. An Assumption

Answer: C

NEW QUESTION 4
During a design workshop, the customer provided the following requirement:
• Business units should not be able to interfere with the operations of a different business unit.
As a result of this requirement, the architect makes the decision to enable multi-tenancy within VCF Automation.
A combination of which two design implications would also need to be documented? (Choose two.)

A. Each Tenant must use an embedded VCF Operations orchestrator instance.
B. Each Tenant must use an external VCF Operations orchestrator instance.
C. The Provider Tenant must use the embedded VCF Operations orchestrator instance.
D. All Tenants must use a single VCF Operations orchestrator instance.
E. The Provider Tenant must use an external VCF Operations orchestrator instance.

Answer: BC

NEW QUESTION 5
An architect is responsible for designing a VMware Cloud Foundation (VCF)-based private cloud. During the design requirements gathering workshop, the following information was captured:
• The solution must capture events from all infrastructure components of the VCF fleet.
• The solution must provide a single pane of glass management interface for troubleshooting, alerting, and monitoring using metrics, events, and flows.
• The solution must meet a 99.9% Service Level Agreement for Availability.
Which three design decisions should the architect make to meet the stated requirements? (Choose three.)

A. Configure VCF Operations for logs to capture events from only VCF Management components.
B. Configure the integration for VCF Operations and VCF Automation.
C. Deploy VCF Operations for logs in a Simple model.
D. Configure the integration for VCF Operations and VCF Operations for logs.
E. Configure VCF Operations for logs to capture events from all VCF infrastructure components.
F. Deploy VCF Operations for logs in a High Availability model.

Answer: BDF

NEW QUESTION 6
Constraint: Existing stretched cluster model must be used. Requirement: Minimize management infrastructure downtime. Which Supervisor deployment model supports the design?

A. Three Management Zone Supervisor deployment with HA control plane
B. Single Management Zone Supervisor deployment with HA control plane
C. Three Management Zone deployment with Simple Availability control plane
D. Single Management Zone Supervisor deployment with Simple Availability control plane

Answer: B

NEW QUESTION 7
An architect is designing a VMware Cloud Foundation (VCF) deployment to meet the following design requirements:
• Tenants need dedicated external network access.
• The number of NSX Edge clusters should be minimized.
To fulfill these requirements, the architect made a design decision to use a Workload Networking VPC with Full Services Model.
Which additional design decision should be considered as part of the logical network design?

A. Deploy the maximum number of 10 NSX Edges into a single Edge cluster.
B. Install two NSX bare metal Edges with multiple physical interfaces to separate tenants.
C. Use Virtual Routing and Forwarding (VRF) lite to create a separate VRF TO Gateway for each tenant.
D. Use NSX Federation providing a dedicated NSX instance for each tenant.

Answer: C

NEW QUESTION 8
Which four component areas are provided by a VMware Kubernetes Service (VKS) cluster?
A. Identity federation, persistent logging, firewall services, and monitoring.
B. Authentication, external storage, virtual machine networking, and DNS services.
C. Authorization, backup services, VLAN segmentation, and DHCP.
D. Authentication and authorization, storage integration, pod networking, and load balancing.

Answer: D

NEW QUESTION 9
An architect is designing the network model for a new VMware Cloud Foundation (VCF) solution. During the requirements gathering phase, the customer stated that the VCF solution must comply with the organization's security policy for traffic separation. The customer provided the architect with the following information from the policy:
• The physical network architecture is divided into multiple security zones.
• Traffic is not permitted to traverse between the zones with the exception of pre-approved monitoring tools.
• Physical servers may not be connected to multiple zones via a single network interface.
• Management and Storage traffic must be kept within network zone 1.
• Workload traffic must be kept within network zone 2.
The architect makes a design decision to use two vSphere Distributed Switches per cluster for both the Management and VI Workload domains.
Which two additional design decisions should the architect include in the virtual networking design for the separation of traffic between the vSphere Distributed Switches? (Choose two.)

A. Configure one vSphere Distributed Switch for ESX Management, Storage, and vMotion traffic.
B. Configure one vSphere Distributed Switch for all storage traffic.
C. Configure one vSphere Distributed Switch for ESX Management, Storage, vMotion traffic and NSX - Host and Edge TEP/Edge Uplinks.
D. Configure one vSphere Distributed Switch for all workload traffic and all NSX - Host and Edge TEP/Edge Uplinks.
E. Configure one vSphere Distributed Switch for all NSX - Host and Edge TEP/Edge Uplinks.

Answer: AD

NEW QUESTION 10
An architect is responsible for designing a new VMware Cloud Foundation (VCF)-based Private Cloud solution. During the requirements gathering workshop with key customer stakeholders, the following information was captured:
• The solution must support running 50,000 workloads concurrently across all sites.
• The solution must support the concurrent deployment of up to 10 workloads.
When creating the design document, which design quality should be used to classify the stated requirements?

A. Manageability
B. Recoverability
C. Performance
D. Availability

Answer: C

NEW QUESTION 10
An organization is designing a VMware Cloud Foundation (VCF) solution hosting a business-critical database. The application owners specified the following requirements:
• All workload domains will use vSAN for storage.
• A maximum acceptable data loss of 5 minutes (Recovery Point Objective (RPO) 5 minutes).
• An automated failover in case of a site outage where Recovery Time Objective (RTO) should not exceed 30 minutes.
• The performance impact should be minimized.
Which design approach aligns with the application's requirement?

A. Configure backup-based recovery with backup jobs scheduler set to every 30 minutes.
B. Use asynchronous replication with snapshots taken every 30 minutes to reduce storage impact.
C. Use vSAN stretched cluster.

D. Use synchronous replication on the storage array level.

Answer: C

NEW QUESTION 14
An architect is responsible for designing a new VMware Cloud Foundation (VCF)-based Private Cloud solution. During the requirements gathering workshop with key customer stakeholders, the following information was captured:
• In the event of a disaster affecting the primary site, all tier 1 production services must be restored to the secondary site within 1 hour.
• In the event of a disaster affecting the primary site, all tier 3 production services must be restored to the secondary site within 8 hours.

A. Recoverability
B. Availability
C. Performance
D. Manageability

Answer: A

NEW QUESTION 18
A customer has a new initiative to build a private cloud based on VMware Cloud Foundation (VCF). The customer technical team is presenting an overview of the current state of the infrastructure as well as describing what the expectations are for the private cloud.
Based on the notes captured by the architect, which statement should be documented as a constraint?

A. The existing storage is out of hardware vendor maintenance.
B. No funding exists for a new storage arra
C. Therefore, existing storage hardware must be used.
D. The design must address security zone requirements for management, production, dev/test, and QA workloads.
E. The design must provide a centralized management console to manage both data centers.

Answer: B

NEW QUESTION 23
An architect is tasked to plan for an upgrade of an existing vSphere-only deployment utilizing vSAN to VMware Cloud Foundation (VCF).
Which three new infrastructure components are required for the upgrade? (Choose three.)

A. NSX
B. SDDC Manager
C. VCF Identity Broker
D. VCF Operations
E. vSphere Supervisor

Answer: ABE

NEW QUESTION 28
An architect has made an assumption that existing support staff are adequately skilled to operate the proposed infrastructure design.
The risk associated with this assumption would be that existing support staff are inadequately skilled to operate the proposed infrastructure design. How would the architect mitigate the risk?

A. Hire additional support staff with the same skillsets to add more support capacity.
B. Allocate the necessary time and budget to train existing support staff on the necessary skills required to operate.
C. Complete a skills assessment of the existing support staff to identify the skill gap.
D. Engage a third-party company to deploy and configure the proposed solution.

Answer: B

NEW QUESTION 30
An architect is responsible for designing a VMware Cloud Foundation (VCF)-based solution for a customer. The customer has the following requirement:
• There should be no single points of failure within the solution.
To comply with the customer requirement, the architect has decided to include physical NIC teaming for all ESX servers in the design.
When documenting this design decision, which consideration should the architect make?

A. Embedded NICs should not be used for NIC teaming.
B. Each NIC team must include NICs from the same physical NIC Card.
C. Each NIC team must include NICs from different physical NIC Cards.
D. Only 10GbE NICs should be used for NIC teaming.

Answer: C

NEW QUESTION 34
As part of the VMware Cloud Foundation (VCF) logical design, the architect has determined that the VCF Private Cloud will encompass multiple VCF instances contained within a single VCF Fleet. The architect documented the following requirements when using VCF Operations:
? Monitoring downtime must be minimized.
? Alerting downtime must be minimized.
Which design decision supports these requirements?

A. Deploy two VCF Operations instances and configure the Aggregator Management Pack.
B. Deploy VCF Operations using the Simple model with Collector nodes at remote sites.
C. Deploy VCF Operations using the High Availability model with Collector nodes at remote sites.

D. Deploy a single VCF Operations instance across a multi-VCF instance fleet.

Answer: C

NEW QUESTION 37
Discovery: Multiple business units (some from acquisitions) with separate AD instances. Each unit operates independently and requires dedicated development environments.
Requirement: Provide self-service provisioning through VCF Automation. Which two design decisions should be included? (Choose two.)

A. All tenants will be configured to use the corporate AD instance for authentication.
B. All tenants will be configured to use their dedicated AD instance for authentication.
C. A VCF Automation tenant will be created for each business unit.
D. A VCF Automation project will be created for each business unit.
E. All projects will be configured to use their dedicated AD instance for authentication.

Answer: BC

NEW QUESTION 41
An architect is documenting the design for a new VMware Cloud Foundation (VCF) solution and makes the following design decision:
? Two vSphere clusters will be deployed within the single VI workload domain. What statement should the architect include as an implication of this design decision?

A. If the solution needs to be scaled at a future date, additional VI workload domains can be deployed.
B. Deploying multiple clusters in the single VI workload domain reduces the number of vCenter Server instances that must be managed.
C. Deploying multiple clusters within the single VI workload domain meets the requirement to segregate Production and Development workloads.
D. All clusters within the single VI workload domain must use vSAN as their principal storage type.

Answer: B

NEW QUESTION 43
Which statement would be classified as a functional (business) requirement?

A. The solution must provide the ability for users to view and track the progress of their requests.
B. The self-service catalog must meet the Service Level Objective (SLO) of 75% successful requests measured over a 12-month period.
C. Applications must be designed to tolerate the failure of a single datacenter.
D. Third-party pen testing must be executed against the solution yearly with a pass rate of 80 percent or higher.

Answer: A

NEW QUESTION 45
An architect is designing for a VMware Cloud Foundation (VCF) Instance. The following requirements and constraints were documented:
• The management domain cluster utilizes vSAN stretched as the principal storage.
• Company policy states that compute and storage capacity utilization must not exceed 90% at all times.
Which three statements should the architect consider when designing the solution to satisfy the requirements? (Choose three.)

A. Use a homogenous cluster configuration.
B. Size and monitor the cluster for a maximum compute peak utilization of < 45%.
C. Use a heterogeneous cluster configuration.
D. Size and monitor the cluster for a maximum storage utilization of 40%.
E. Size and monitor the cluster for a maximum compute peak utilization of < 90%.
F. Size and monitor the cluster for a maximum storage utilization of 90%.

Answer: ABD

NEW QUESTION 49
A VMware Cloud Foundation (VCF) architect is planning for the expansion of an existing VCF instance.
The existing VCF instance is deployed with a single workload domain. The number of ESXi hosts has grown to the maximum number the existing vCenter can support.
Which design decision would the architect need to make to allow the existing VCF Instance to add more ESXi hosts?

A. Deploy a second vCenter server appliance within the existing workload domain
B. Deploy a second workload domain within the existing VCF Instance
C. Deploy a second cluster within the existing vCenter
D. Deploy a second VCF Instance within the existing VCF Fleet

Answer: B

NEW QUESTION 50
An architect is tasked with designing a new VMware Cloud Foundation (VCF) solution. During workshops with the customer, the following requirements were captured:
• REQ01: The solution must provide a self-service catalog.
• REQ02: The solution must support the segregation of the Development and Production resources (networks, virtual machines, users).
When documenting the design decisions, which statement should the architect include in order to help meet these requirements?

A. VCF Automation does not support the use of multiple Active Directory domains.
B. Separate workload domains must be configured to provide segregation between the Development and Production environments.
C. VCF Automation will be configured with separate service catalog instances for Development and Production.

D. VCF Automation will be configured with separate organizations for Development and Production.

Answer: D

NEW QUESTION 55
What open source project does vSphere Supervisor use to automate the lifecycle management of VMware Kubernetes Service (VKS) clusters?

A. Cluster API
B. Grafana
C. Contour
D. Kubeadm

Answer: A

NEW QUESTION 60
An architect is designing a new VMware Cloud Foundation (VCF) solution. They are meeting with the key stakeholders and subject matter experts (SMEs) for the first time as part of the requirements gathering process. The following information has been shared with the architect prior to the meeting:
? Names and job titles of the attendees
? Project timelines and budget
What step should the architect perform as part of this initial requirements gathering workshop?

A. Open the meeting with a diagram of the VCF topology that must meet the customer requirements in order to start a discussion.
B. Ask questions to agree on the key product features the SMEs want from the design.
C. Open the meeting with a list of the VCF design decisions from the public documentation to agree on any required changes.
D. Ask questions to start a discussion on the business objectives and desired outcomes.

Answer: D

NEW QUESTION 65
An architect is designing a Business Continuity Disaster Recovery (BCDR) strategy for a Virtual Cloud Foundation (VCF) environment with a management domain and multiple workload domains deployed in two datacenters located in the same city.
During one of the initial workshops with stakeholders, the following information was identified:
? The Recovery Time Objective (RTO) for workloads is 24 hours.
? The management domain must remain continuously available with Recovery Point Objective (RPO) of 0.
? Hardware overhead should be minimized by utilizing standby resources that host test workloads during normal operation.
? Operational overhead should be minimized.
? Latency between both datacenters is 2 ms.
Which design decision should the architect document to satisfy provided requirements?

A. Use VCF Automation to redeploy the entire environment in case of a failure.
B. Implement vSAN stretched cluster for the management domain and Live Recovery for the workload domains.
C. Back up all workloads daily and store them in a central repository to meet RTO expectations.
D. Use asynchronous replication for both management and workload domains.

Answer: B

NEW QUESTION 68
Requirements:
? Workloads across multiple datacenters (DC01, DC02)
? Support two-factor authentication (2FA)
? Reduce operational overhead
Which two design decisions should be documented for the VCF Single Sign-On (SSO) architecture?

A. Deploy VIDB in the management domain of every VCF instance in all sites.
B. Deploy VIDB in the management domain of each VCF instance at DC02.
C. Configure all additional VCF instances in the same region to point to the VIDB in the first VCF instance at DC02.
D. Deploy VIDB in the first VCF instance management domain at DC01.
E. Configure all additional VCF instances in the same private cloud to point to the VIDB in the first VCF instance at DC01.

Answer: DE

NEW QUESTION 69
Which statement would the architect document as a design decision within the logical design?

A. Service Levels will align with the defined Business Impact Analysis findings.
B. The solution must provide the ability to patch an existing template.
C. The VMware Distributed Resource Scheduler (DRS) latency sensitivity value will be set to high for the workload cluster.
D. vSphere High Availability (HA) will be enabled.

Answer: C

NEW QUESTION 70
Which statement defines the purpose of Technical Requirements?

A. They define which goals and objectives can be achieved.
B. They define what goals and objectives need to be achieved.
C. They define which audience need to be involved.

D. They define how the goals and objectives can be achieved.

Answer: D

NEW QUESTION 71
An architect is designing a solution with Istio Service Mesh.
What two types of groups can collect and manage objects? (Choose two.)

A. Service
B. Cluster
C. Security
D. API
E. Node

Answer: AB

NEW QUESTION 76
An architect is working on a VMware Cloud Foundation (VCF) architecture design and identified the following requirements:
• The organization is using a third-party virtual appliance that does not support overlay networks.
• The virtual appliance must reside on the same L2 domain as an external physical firewall.
• The virtual appliance also needs access to workloads that are currently hosted on overlay segments provided by NSX.
Which design decision should the architect make to meet these requirements?

A. Request the third-party vendor to certify the virtual appliance for NSX Overlay segments.
B. Connect the virtual appliance to a VLAN-backed segment and configure NSX bridging to allow access to overlay segments.
C. Place the virtual appliance and all workloads on VLAN-backed segments.
D. Connect the virtual appliance to an overlay-backed segment and use static routes to the firewall.

Answer: B

NEW QUESTION 81
As part of an initial stakeholder meeting, one of the stakeholders has stated the following:
? The initial design must be completed within the next 3 months so that hardware can be ordered within the current budget cycle.
How would the architect classify and record this statement?

A. A constraint
B. A risk
C. An assumption
D. A requirement

Answer: A

NEW QUESTION 83
During the design workshop, the customer stated the following requirement:
• The solution must comply with the organization's security standards.
Which two design decisions should be included in the logical design for the workload domain? (Choose two.)

A. Use large-size NSX Edge virtual appliances to account for the additional firewall rules.
B. Enable VM Monitoring for each workload within the cluster.
C. Enable Inter-SR iBGP routing.
D. Use an SHA-2 algorithm or higher when signing certificates.
E. Establish an operations practice to capture and update the thumbprint of the NSX Local Manager certificate on the NSX Global Manager every time the certificate is updated.

Answer: DE

NEW QUESTION 88
Why would an architect specify the default NSX segment profiles in a VMware Cloud Foundation (VCF) design?

A. Default segment profiles are required for VLAN-backed segments and cannot be overridden.
B. Default segment profiles offer enhanced performance and are automatically optimized for overlay traffic.
C. Default segment profiles enable distributed firewall policy enforcement and avoid the need for overlay segments.
D. Default segment profiles provide sufficient security and operational baseline settings for most common workloads and simplify lifecycle management.

Answer: D

NEW QUESTION 93
Requirements and constraints:
? 3 datacenters within 1 mile radius, high-speed LAN connectivity
? Private cloud must be hosted at HQ datacenter
? Must protect against datacenter loss with no data loss (RPO = 0)
Which design model meets these requirements?

A. VCF fleet with disaster recovery on a multi-rack cluster model
B. VCF fleet with disaster recovery on a single-rack cluster model
C. VCF fleet with fault domains on a multi-rack cluster model
D. VCF fleet with fault domains on a stretched cluster model

Answer: D

NEW QUESTION 97
An architect is responsible for designing a new VMware Cloud Foundation (VCF)-based Private Cloud solution. During the requirements gathering workshop with key customer stakeholders, the following information was captured:
• The solution must ensure that all components meet a software version of N-1.

A. Recoverability
B. Manageability
C. Security
D. Availability

Answer: C

NEW QUESTION 102
An architect is planning resources for a new cluster that will be part of an existing workload domain. The new cluster will provide resources for several new workloads, including a mission-critical application consisting of five resource-intensive virtual machines.
The following requirements were provided for the new cluster:
• The solution must ensure that the new workload cluster meets the company's availability standard of N+1.
• The solution must minimize the overall investment in hardware.
Which two design recommendations should the architect make to meet the stated requirements? (Choose two.)

A. Use automated placement rules to keep the mission-critical application virtual machines apart.
B. Use resource pools to prioritize resource for the mission-critical application virtual machines.
C. Use automated placement rules to keep the mission-critical application virtual machines together.
D. Create a cluster with six hosts.
E. Create a cluster with five hosts.

Answer: AD

NEW QUESTION 104
An architect is responsible for designing a VMware Cloud Foundation (VCF)-based private cloud for a customer. The architect noted the following requirements during a design workshop:
? Co-locate application workloads with VCF management component workloads within the same vSphere cluster.
? Shared storage data is always available and 100% current in the event of a single site outage.
? Have two sites available no more than 10 miles apart (10ms latency) connected with high-speed network technology to host their virtual infrastructure.
? Protect against outages of a single site designated as an availability zone.
Which two storage technologies could meet the stated requirements? (Choose two.)

A. NVMe over TCP
B. NVMe over Fibre Channel (FC)
C. VMFS on Fibre Channel (FC)
D. vSAN
E. vSphere Virtual Volumes (vVols)

Answer: DE

NEW QUESTION 105
A customer is deploying VMware Cloud Foundation (VCF) in an enterprise environment. During a series of workshops with stakeholders, the following requirements were identified:
? The network solution must be capable of complete logical isolation.
? The network solution must be capable of supporting independent upgrade cycles for network stacks.
? The network solution must be capable of tenant-specific customization of NSX configurations.
The architect has made the following design decisions:
? The solution will consist of a single VCF instance.
? The solution will include a management domain and two workload domains.
Based on the scenario, which additional design decision meets all of the stated requirements?

A. Deploy NSX only in the management domain and use VLAN-backed segments in the workload domains.
B. Use a global NSX Federation configuration across workload domains.
C. Use a shared NSX instance across both workload domains.
D. Deploy a dedicated NSX instance per workload domain.

Answer: D

NEW QUESTION 109
Which configuration should the architect recommend as part of the design of a VMware Cloud Foundation (VCF) solution to ensure optimal performance in a multi-tenant environment?

A. Use a single large datastore for all tenants to simplify management.
B. Configure all workloads to operate on a single ESXi host to minimize network latency.
C. Implement vSAN with tiered storage policies to ensure high I/O performance and low latency for tenant workloads.
D. Allow an unlimited number of virtual machines per host to consume all available resources.

Answer: C

NEW QUESTION 114

An architect is responsible for designing a new VMware Cloud Foundation (VCF)-based Private Cloud solution. During the requirements gathering workshop with key customer stakeholders, the following information was captured:
? The solution must support a yearly workload growth of up to 10%.
When creating the design document, which design quality should be used to classify the stated requirements?

A. Performance
B. Availability
C. Manageability
D. Security

Answer: A

NEW QUESTION 118
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