

Question #1Topic 1

DRAG DROP -

Your company intends to subscribe to an Azure support plan.

The support plan must allow for new support requests to be opened.

Which of the following are support plans that will allow this? Answer by dragging the correct option from the list to the answer area.

Select and Place:

Options

Answer

Basic

Developer

Standard

PROFESSIONAL
DIRECT

PREMIER

ANS :

Developer

Standard

Professional Direct

Premier

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Question #2Topic 1

Your company has datacenters in Los Angeles and New York. The company has a Microsoft Azure subscription.

You are configuring the two datacenters as geo-clustered sites for site resiliency.

You need to recommend an Azure storage redundancy option.

You have the following data storage requirements:

- ☞ Data must be stored on multiple nodes.
- ☞ Data must be stored on nodes in separate geographic locations.
- ☞ Data can be read from the secondary location as well as from the primary location

Which of the following Azure stored redundancy options should you recommend?

- A. Geo-redundant storage
- B. Read-only geo-redundant storage
- C. Zone-redundant storage
- D. Locally redundant storage

ANS : Read- only geo-redundant storage

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Question #3Topic 1

Note: The question is included in a number of questions that depicts the identical set-up. However, every question has a distinctive result. Establish if the solution satisfies the requirements.

Your company's Azure subscription includes a Basic support plan.

They would like to request an assessment of an Azure environment's design from Microsoft.

This is, however, not supported by the existing plan.

You want to make sure that the company subscribes to a support plan that allows this functionality, while keeping expenses to a minimum.

Solution: You recommend that the company subscribes to the Professional Direct support plan.

Does the solution meet the goal?

- A. Yes
- B. No

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Question #4Topic 1

Note: The question is included in a number of questions that depicts the identical set-up. However, every question has a distinctive result. Establish if the solution satisfies the requirements.

You are tasked with deploying Azure virtual machines for your company.

You need to make use of the appropriate cloud deployment solution.

Solution: You should make use of Software as a Service (SaaS).

Does the solution meet the goal?

- A. Yes

- B. No

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Question #5Topic 1

Note: The question is included in a number of questions that depicts the identical set-up. However, every question has a distinctive result. Establish if the solution satisfies the requirements.

You are tasked with deploying Azure virtual machines for your company.

You need to make use of the appropriate cloud deployment solution.

Solution: You should make use of Platform as a Service (PaaS).

Does the solution meet the goal?

- A. Yes
- B. No

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Question #6Topic 1

Note: The question is included in a number of questions that depicts the identical set-up. However, every question has a distinctive result. Establish if the solution satisfies the requirements.

You are tasked with deploying Azure virtual machines for your company.

You need to make use of the appropriate cloud deployment solution.

Solution: You should make use of Infrastructure as a Service (IaaS).

Does the solution meet the goal?

- A. Yes
- B. No

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Question #7Topic 1

Your developers have created 10 web applications that must be host on Azure.

You need to determine which Azure web tier plan to host the web apps. The web tier plan must meet the following requirements:

- ☞ The web apps will use custom domains.
- ☞ The web apps each require 10 GB of storage.
- ☞ The web apps must each run in dedicated compute instances.
- ☞ Load balancing between instances must be included.
- ☞ Costs must be minimized.

Which web tier plan should you use?

- A. Standard
- B. Basic
- C. Free
- D. Shared

Question #8 *Topic 1*

Note: The question is included in a number of questions that depicts the identical set-up. However, every question has a distinctive result. Establish if the solution satisfies the requirements.

You are planning to migrate a company to Azure. Each of the company's numerous divisions will have an administrator in place to manage the Azure resources used by their respective division.

You want to make sure that the Azure deployment you employ allows for Azure to be segmented for the divisions, while keeping administrative effort to a minimum.

Solution: You plan to make use of several Azure Active Directory (Azure AD) directories.

Does the solution meet the goal?

- A. Yes
- B. No

Question #9 *Topic 1*

Your developers have created a portal web app for users in the Miami branch office. The web app will be publicly accessible and used by the Miami users to retrieve customer and product information. The web app is currently running in an on-premises test environment.

You plan to host the web app on Azure.

You need to determine which Azure web tier plan to host the web app. The web tier plan must meet the following requirements:

- ☞ The website will use the miami.veyland.com URL.
- ☞ The website will be deployed to two instances.
- ☞ SSL support must be included.
- ☞ The website requires 12 GB of storage.
- ☞ Costs must be minimized.

Which web tier plan should you use?

- A. Standard
- B. Basic
- C. Free
- D. Shared

Question #10 *Topic 1*

Note: The question is included in a number of questions that depicts the identical set-up. However, every question has a distinctive result. Establish if the solution satisfies the requirements.

Your company is planning to migrate all their virtual machines to an Azure pay-as-you-go subscription. The virtual machines are currently hosted on the Hyper-V hosts in a data center.

You are required make sure that the intended Azure solution uses the correct expenditure model.

Solution: You should recommend the use of the elastic expenditure model.
Does the solution meet the goal?

- A. Yes
- B. No

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Question #11Topic 1

Note: The question is included in a number of questions that depicts the identical set-up. However, every question has a distinctive result. Establish if the solution satisfies the requirements.

Your company is planning to migrate all their virtual machines to an Azure pay-as-you-go subscription. The virtual machines are currently hosted on the Hyper-V hosts in a data center. You are required make sure that the intended Azure solution uses the correct expenditure model.

Solution: You should recommend the use of the scalable expenditure model.
Does the solution meet the goal?

- A. Yes
- B. No

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Question #12Topic 1

Note: The question is included in a number of questions that depicts the identical set-up. However, every question has a distinctive result. Establish if the solution satisfies the requirements.

Your company is planning to migrate all their virtual machines to an Azure pay-as-you-go subscription. The virtual machines are currently hosted on the Hyper-V hosts in a data center. You are required make sure that the intended Azure solution uses the correct expenditure model.

Solution: You should recommend the use of the operational expenditure model.
Does the solution meet the goal?

- A. Yes
- B. No

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Question #13Topic 1

Note: The question is included in a number of questions that depicts the identical set-up. However, every question has a distinctive result. Establish if the solution satisfies the requirements.

You are required to deploy an Artificial Intelligence (AI) solution in Azure.

You want to make sure that you are able to build, test, and deploy predictive analytics for the

solution.

Solution: You should make use of Azure Cosmos DB.

Does the solution meet the goal?

- A. Yes
- B. No

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Question #14Topic 1

Note: The question is included in a number of questions that depicts the identical set-up. However, every question has a distinctive result. Establish if the solution satisfies the requirements.

Your company's Active Directory forest includes thousands of user accounts.

You have been informed that all network resources will be migrated to Azure. Thereafter, the on-premises data center will be retired.

You are required to employ a strategy that reduces the effect on users, once the planned migration has been completed.

Solution: You plan to sync all the Active Directory user accounts to Azure Active Directory (Azure AD).

Does the solution meet the goal?

- A. Yes
- B. No

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Question #15Topic 1

Note: The question is included in a number of questions that depicts the identical set-up. However, every question has a distinctive result. Establish if the solution satisfies the requirements.

You are required to deploy an Artificial Intelligence (AI) solution in Azure.

You want to make sure that you are able to build, test, and deploy predictive analytics for the solution.

Solution: You should make use of Azure Machine Learning Studio.

Does the solution meet the goal?

- A. Yes
- B. No

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Question #16Topic 1

Note: The question is included in a number of questions that depicts the identical set-up. However, every question has a distinctive result. Establish if the solution satisfies the requirements.

Your company's infrastructure includes a number of business units that each need a large number of various Azure resources for everyday operation.

The resources required by each business unit are identical.

You are required to sanction a strategy to create Azure resources automatically.

Solution: You recommend that the Azure API Management service be included in the strategy.

Does the solution meet the goal?

- A. Yes
- B. No

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Question #17Topic 1

Note: The question is included in a number of questions that depicts the identical set-up. However, every question has a distinctive result. Establish if the solution satisfies the requirements.

Your company's infrastructure includes a number of business units that each need a large number of various Azure resources for everyday operation.

The resources required by each business unit are identical.

You are required to sanction a strategy to create Azure resources automatically.

Solution: You recommend that management groups be included in the strategy.

Does the solution meet the goal?

- A. Yes
- B. No

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Question #18Topic 1

Note: The question is included in a number of questions that depicts the identical set-up. However, every question has a distinctive result. Establish if the solution satisfies the requirements.

Your company's infrastructure includes a number of business units that each need a large number of various Azure resources for everyday operation.

The resources required by each business unit are identical.

You are required to sanction a strategy to create Azure resources automatically.

Solution: You recommend that the Azure Resource Manager templates be included in the strategy.

Does the solution meet the goal?

- A. Yes
- B. No

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Question #19Topic 1

Note: The question is included in a number of questions that depicts the identical set-up. However, every question has a distinctive result. Establish if the solution satisfies the requirements.

You are tasked with deploying a critical LOB application, which will be installed on a virtual

machine, to Azure.

You are informed that the application deployment strategy should allow for a guaranteed availability of 99.99 percent. You need to make sure that the strategy requires as little virtual machines and availability zones as possible.

Solution: You include two virtual machines and one availability zone in your strategy.

Does the solution meet the goal?

- A. Yes
- B. No

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Question #20Topic 1

Note: The question is included in a number of questions that depicts the identical set-up. However, every question has a distinctive result. Establish if the solution satisfies the requirements.

You are tasked with deploying a critical LOB application, which will be installed on a virtual machine, to Azure.

You are informed that the application deployment strategy should allow for a guaranteed availability of 99.99 percent. You need to make sure that the strategy requires as little virtual machines and availability zones as possible.

Solution: You include one virtual machine and two availability zones in your strategy.

Does the solution meet the goal?

- A. Yes
- B. No

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Question #21Topic 1

Note: The question is included in a number of questions that depicts the identical set-up. However, every question has a distinctive result. Establish if the solution satisfies the requirements.

You are tasked with deploying a critical LOB application, which will be installed on a virtual machine, to Azure.

You are informed that the application deployment strategy should allow for a guaranteed availability of 99.99 percent. You need to make sure that the strategy requires as little virtual machines and availability zones as possible.

Solution: You include two virtual machines and two availability zones in your strategy.

Does the solution meet the goal?

- A. Yes
- B. No

Question #22Topic 1

Note: The question is included in a number of questions that depicts the identical set-up. However, every question has a distinctive result. Establish if the solution satisfies the requirements.

Your company's developers intend to deploy a large number of custom virtual machines on a weekly basis. They will also be removing these virtual machines during the same week it was deployed. Sixty percent of the virtual machines have Windows Server 2016 installed, while the other forty percent has Ubuntu Linux installed.

You are required to make sure that the administrative effort, needed for this process, is reduced by employing a suitable Azure service.

Solution: You recommend the use of Microsoft Managed Desktop.
Does the solution meet the goal?

- A. Yes
- B. No

Question #23Topic 1

Note: The question is included in a number of questions that depicts the identical set-up. However, every question has a distinctive result. Establish if the solution satisfies the requirements.

Your company's developers intend to deploy a large number of custom virtual machines on a weekly basis. They will also be removing these virtual machines during the same week it was deployed. Sixty percent of the virtual machines have Windows Server 2016 installed, while the other forty percent has Ubuntu Linux installed.

You are required to make sure that the administrative effort, needed for this process, is reduced by employing a suitable Azure service.

Solution: You recommend the use of Azure Reserved Virtual Machines (VM) Instances.
Does the solution meet the goal?

- A. Yes
- B. No

Question #24Topic 1

Note: The question is included in a number of questions that depicts the identical set-up. However, every question has a distinctive result. Establish if the solution satisfies the requirements.

Your company's developers intend to deploy a large number of custom virtual machines on a weekly basis. They will also be removing these virtual machines during the same week it was deployed. Sixty percent of the virtual machines have Windows Server 2016 installed, while the other forty percent has Ubuntu Linux installed.

You are required to make sure that the administrative effort, needed for this process, is reduced by employing a suitable Azure service.

Solution: You recommend the use of Azure DevTest Labs.
Does the solution meet the goal?

- A. Yes
- B. No

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Question #25Topic 1

Your company has virtual machines (VMs) hosted in Microsoft Azure. The VMs are located in a single Azure virtual network named VNet1.

The company has users that work remotely. The remote workers require access to the VMs on VNet1.

You need to provide access for the remote workers.

What should you do?

- A. Configure a Site-to-Site (S2S) VPN.
- B. Configure a VNet-toVNet VPN.
- C. Configure a Point-to-Site (P2S) VPN.
- D. Configure DirectAccess on a Windows Server 2012 server VM.
- E. Configure a Multi-Site VPN

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Question #26Topic 1

Note: The question is included in a number of questions that depicts the identical set-up. However, every question has a distinctive result. Establish if the solution satisfies the requirements.

You have been informed by your superiors of the company's intentions to automate server deployment to Azure. There is, however, some concern that administrative credentials could be uncovered during this process.

You are required to make sure that during the deployment, the administrative credentials are encrypted using a suitable Azure solution.

Solution: You recommend the use of Azure Information Protection.

Does the solution meet the goal?

- A. Yes
- B. No

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Question #27Topic 1

Note: The question is included in a number of questions that depicts the identical set-up. However, every question has a distinctive result. Establish if the solution satisfies the requirements.

You have been informed by your superiors of the company's intentions to automate server deployment to Azure. There is, however, some concern that administrative credentials could be uncovered during this process.

You are required to make sure that during the deployment, the administrative credentials are encrypted using a suitable Azure solution.

Solution: You recommend the use of Azure Multi-Factor Authentication (MFA).

Does the solution meet the goal?

- A. Yes
- B. No

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Question #28Topic 1

DRAG DROP -

The company would like to develop a cloud solution by making use of Azure Government. Azure Government can only be used by certain types of clients to develop cloud solutions.

Which of the following are the types of customers that can make use of Azure Government in this situation? Answer by dragging the correct option from the list to the answer area.

Select and Place:

Options

Answer

A government contractor from any country.

A government entity from any country.

A European government contractor.

A European government entity.

A United States government contractor.

A United States government entity.

ANS :

A united states government contractor

A united states government entity

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Question #29Topic 1

Note: The question is included in a number of questions that depicts the identical set-up. However, every question has a distinctive result. Establish if the solution satisfies the requirements.

Your company has an Azure Active Directory (Azure AD) environment. Users occasionally connect to Azure AD via the Internet.

You have been tasked with making sure that users who connect to Azure AD via the internet from an unidentified IP address, are automatically encouraged to change passwords.

Solution: You configure the use of Azure AD Identity Protection.

Does the solution meet the goal?

- A. Yes
- B. No

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Question #30Topic 1

Note: The question is included in a number of questions that depicts the identical set-up. However, every question has a distinctive result. Establish if the solution satisfies the requirements.

Your company has an Azure Active Directory (Azure AD) environment. Users occasionally connect to Azure AD via the Internet.

You have been tasked with making sure that users who connect to Azure AD via the internet from an unidentified IP address, are automatically encouraged to change passwords.

Solution: You configure the use of Azure AD Privileged Identity Management.

Does the solution meet the goal?

- A. Yes
- B. No

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Question #31Topic 1

Note: The question is included in a number of questions that depicts the identical set-up. However, every question has a distinctive result. Establish if the solution satisfies the requirements.

You are planning a strategy to deploy numerous web servers and database servers to Azure. This strategy should allow for connection types between the web servers and database servers to be controlled.

Solution: You include network security groups (NSGs) in your strategy.

Does the solution meet the goal?

- A. Yes
- B. No

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Question #32Topic 1

Note: The question is included in a number of questions that depicts the identical set-up. However, every question has a distinctive result. Establish if the solution satisfies the requirements.

You are planning a strategy to deploy numerous web servers and database servers to Azure. This strategy should allow for connection types between the web servers and database servers to be controlled.

Solution: You include a local network gateway in your strategy.

Does the solution meet the goal?

- A. Yes
- B. No

26

Question #33Topic 1

Note: The question is included in a number of questions that depicts the identical set-up. However, every question has a distinctive result. Establish if the solution satisfies the requirements.

Your company's Active Directory forest includes thousands of user accounts.

You have been informed that all network resources will be migrated to Azure. Thereafter, the on-premises data center will be retired.

You are required to employ a strategy that reduces the effect on users, once the planned migration has been completed.

Solution: You plan to require Azure Multi-Factor Authentication (MFA).

Does the solution meet the goal?

- A. Yes
- B. No

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Question #34Topic 1

HOTSPOT -

For each of the following statements, select Yes if the statement is true. Otherwise, select No.
NOTE: Each correct selection is worth one point.

Hot Area:

ANANSAA

Answer Area

Statements	Yes	No
A platform as a service (PaaS) solution that hosts web apps in Azure provides full control of the operating systems that host applications.	<input type="radio"/>	<input type="radio"/>
A platform as a service (PaaS) solution that hosts web apps in Azure provides the ability to scale the platform automatically .	<input type="radio"/>	<input type="radio"/>
A platform as a service (PaaS) solution that hosts web apps in Azure provides professional development services to continuously add features to custom applications.	<input type="radio"/>	<input type="radio"/>

ANS:

1 NO

2 YES

3 YES

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Question #35Topic 1

HOTSPOT -

For each of the following statements, select Yes if the statement is true. Otherwise, select No.
NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
Azure provides flexibility between capital expenditure (CapEx) and operational expenditure (OpEx).	<input type="radio"/>	<input type="radio"/>
If you create two Azure virtual machines that use the B2S size, each virtual machine will always generate the same monthly costs.	<input type="radio"/>	<input type="radio"/>
When an Azure virtual machine is stopped, you continue to pay storage costs associated to the virtual machine.	<input type="radio"/>	<input type="radio"/>

ANS :

1 YES

2 NO

3 NO

Hot Area:

Answer Area

When you are implementing a Software as a Service (SaaS) solution, you are responsible for

- configuring high availability.
- defining scalability rules.
- installing the SaaS solution.
- configuring the SaaS solution.

ANS: Configuring the Saas solution

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Question #37Topic 1

You have an on-premises network that contains several servers.

You plan to migrate all the servers to Azure.

You need to recommend a solution to ensure that some of the servers are available if a single Azure data center goes offline for an extended period.

What should you include in the recommendation?

- A. fault tolerance
- B. elasticity
- C. scalability
- D. low latency

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Question #38Topic 1

HOTSPOT -

To complete the sentence, select the appropriate option in the answer area.

Hot Area:

Answer Area

An organization that hosts its infrastructure

- in a private cloud
- in a hybrid cloud
- in the public cloud
- on a Hyper-V host

no longer requires a data center .

ANS : In the public cloud.

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Question #39Topic 1

What are two characteristics of the public cloud? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. dedicated hardware
- B. unsecured connections
- C. limited storage
- D. metered pricing
- E. self-service management

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Question #40Topic 1

HOTSPOT -

To complete the sentence, select the appropriate option in the answer area.

Hot Area:

Answer Area

When planning to migrate a public website to Azure,
you must plan to

- deploy a VPN.
- pay monthly usage costs.
- pay to transfer all the website data to Azure.
- reduce the number of connections to the website.

ANS : Pay monthly usage costs.

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Question #41Topic 1

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

Your company plans to migrate all its data and resources to Azure.
The company's migration plan states that only Platform as a Service (PaaS) solutions must be used in Azure.
You need to deploy an Azure environment that meets the company migration plan.
Solution: You create an Azure App Service and Azure SQL databases.
Does this meet the goal?

- A. Yes
- B. No

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Question #42Topic 1

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

Your company plans to migrate all its data and resources to Azure.
The company's migration plan states that only Platform as a Service (PaaS) solutions must be used in Azure.

You need to deploy an Azure environment that meets the company migration plan.

Solution: You create an Azure App Service and Azure virtual machines that have Microsoft SQL Server installed.

Does this meet the goal?

- A. Yes
- B. No

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Question #43Topic 1

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

Your company plans to migrate all its data and resources to Azure.

The company's migration plan states that only Platform as a Service (PaaS) solutions must be used in Azure.

You need to deploy an Azure environment that meets the company migration plan.

Solution: You create an Azure App Service and Azure Storage accounts.

Does this meet the goal?

- A. Yes
- B. No

Question #44Topic 1

Your company hosts an accounting application named App1 that is used by all the customers of the company.

App1 has low usage during the first three weeks of each month and very high usage during the last week of each month.

Which benefit of Azure Cloud Services supports cost management for this type of usage pattern?

- A. high availability
- B. high latency
- C. elasticity
- D. load balancing

Question #45Topic 1

You plan to migrate a web application to Azure. The web application is accessed by external users.

You need to recommend a cloud deployment solution to minimize the amount of administrative effort used to manage the web application.

What should you include in the recommendation?

- A. Software as a Service (SaaS)
- B. Platform as a Service (PaaS)
- C. Infrastructure as a Service (IaaS)
- D. Database as a Service (DaaS)

Question #46Topic 1

HOTSPOT -

Which cloud deployment solution is used for Azure virtual machines and Azure SQL databases?

To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Azure virtual machines:

Infrastructure as a service (IaaS)
Platform as a service (PaaS)
Software as a service (SaaS)

Azure SQL databases:

Infrastructure as a service (IaaS)
Platform as a service (PaaS)
Software as a service (SaaS)

ANS

1 Infrastructure as a service

2 Platform as service

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Question #47Topic 1

You have an on-premises network that contains 100 servers.
You need to recommend a solution that provides additional resources to your users. The solution must minimize capital and operational expenditure costs.
What should you include in the recommendation?

- A. a complete migration to the public cloud
- B. an additional data center
- C. a private cloud
- D. a hybrid cloud

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Question #48Topic 1

HOTSPOT -

For each of the following statements, select Yes if the statement is true. Otherwise, select No.
NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
To achieve a hybrid cloud model, a company must always migrate from a private cloud model.	<input type="radio"/>	<input type="radio"/>
A company can extend the capacity of its internal network by using the public cloud.	<input type="radio"/>	<input type="radio"/>
In a public cloud model, only guest users at your company can access the resources in the cloud.	<input type="radio"/>	<input type="radio"/>

ANS:

1 NO

2 YES

3 NO

100

Question #49Topic 1

You plan to migrate several servers from an on-premises network to Azure.
What is an advantage of using a public cloud service for the servers over an on-premises network?

- A. The public cloud is owned by the public, NOT a private corporation
- B. The public cloud is a crowd-sourcing solution that provides corporations with the ability to enhance the cloud
- C. All public cloud resources can be freely accessed by every member of the public
- D. The public cloud is a shared entity whereby multiple corporations each use a portion of the resources in the cloud

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Question #50Topic 1

HOTSPOT -

To complete the sentence, select the appropriate option in the answer area.

Hot Area:

Answer Area

Azure Site Recovery provides

	▼
fault tolerance	
disaster recovery	
elasticity	
high availability	

for virtual machines.

ANS : Disaster Recovery

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Question #51Topic 1

In which type of cloud model are all the hardware resources owned by a third-party and shared between multiple tenants?

- A. private
- B. hybrid
- C. public

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Question #52Topic 1

HOTSPOT -

To complete the sentence, select the appropriate option in the answer area.

Hot Area:

Answer Area

An Azure web app that queries an on-premises Microsoft SQL server is an example of a

	▼
hybrid	
multi-vendor	
private	
public	

cloud.

ANS ; Hybrid

Question #53 Topic 1

You have 1,000 virtual machines hosted on the Hyper-V hosts in a data center. You plan to migrate all the virtual machines to an Azure pay-as-you-go subscription. You need to identify which expenditure model to use for the planned Azure solution. Which expenditure model should you identify?

- A. operational
- B. elastic
- C. capital
- D. scalable

Question #54 Topic 1

DRAG DROP -

Match the Azure services benefits to the correct descriptions.

Instructions: To answer, drag the appropriate benefit from the column on the left to its description on the right. Each benefit may be used once, more than once, or not at all.

NOTE: Each correct match is worth one point.

Select and Place:

Answer Options	Answer Area	
Disaster recovery	A cloud service that remains available after a failure occurs	<input type="text"/>
Fault tolerance	A cloud service that can be recovered after a failure occurs	<input type="text"/>
Low latency	A cloud service that performs quickly when demand increases	<input type="text"/>
Dynamic scalability	A cloud service that can be accessed quickly from the Internet.	<input type="text"/>

ANS:

1 Fault Tolerance

2 Disaster Recovery

3 Dynamic Scalability

4 Low Latency

Question #55 Topic 1

HOTSPOT -

For each of the following statements, select Yes if the statement is true. Otherwise, select No.
NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
To implement a hybrid cloud model, a company must have an internal network.	<input type="radio"/>	<input type="radio"/>
A company can extend the computing resources of its internal network by using a hybrid cloud.	<input type="radio"/>	<input type="radio"/>
In a public cloud model, only guest users at your company can access the resources in the cloud.	<input type="radio"/>	<input type="radio"/>

ANS :

1 NO

2 YES

3 NO

HOTSPOT -

For each of the following statements, select Yes if the statement is true. Otherwise, select No.
NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
A Platform as a Service (PaaS) solution provides full control of operating systems that host applications.	<input type="radio"/>	<input type="radio"/>
A Platform as a Service (PaaS) solution provides additional memory to apps by changing pricing tiers.	<input type="radio"/>	<input type="radio"/>
A Platform as a Service (PaaS) solution can automatically scale the number of instances.	<input type="radio"/>	<input type="radio"/>

ANS

1 NO

2 YES

3 YES

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Question #57Topic 1

Your company has an on-premises network that contains multiple servers. The company plans to reduce the following administrative responsibilities:

- ☞ Backing up application data
- ☞ Replacing failed server hardware
- ☞ Managing physical server security
- ☞ Updating server operating systems
- ☞ Managing permissions to shared documents

The company plans to migrate servers to Azure virtual machines.

You need to identify which administrative responsibilities will be eliminated after the planned migration.

Which two responsibilities should you identify? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. Replacing failed server hardware
- B. Backing up application data
- C. Managing physical server security

- D. Updating server operating systems
- E. Managing permissions to shared documents

38

Question #58 Topic 1

HOTSPOT -

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
Azure Pay-As-You-Go pricing is an example of CapEx.	<input type="radio"/>	<input type="radio"/>
Paying electricity for your datacenter is an example of OpEx.	<input type="radio"/>	<input type="radio"/>
Deploying your own datacenter is an example of CapEx.	<input type="radio"/>	<input type="radio"/>

ANS:

1 NO

2 NO

3 YES

185

Question #59 Topic 1

You plan to provision Infrastructure as a Service (IaaS) resources in Azure.
Which resource is an example of IaaS?

- A. an Azure web app
- B. an Azure virtual machine
- C. an Azure logic app
- D. an Azure SQL database

44

Question #60 Topic 1

To which cloud models can you deploy physical servers?

- A. private cloud and hybrid cloud only
- B. private cloud only
- C. private cloud, hybrid cloud and public cloud

- D. hybrid cloud only

54

Question #61 Topic 1

DRAG DROP -

Match the cloud model to the correct advantage.

Instructions: To answer, drag the appropriate cloud model from the column on the left to its advantage on the right. Each cloud model may be used once, more than once, or not at all.

NOTE: Each correct match is worth one point

Select and Place:

Cloud model	Work Area
Hybrid Cloud	<input type="text"/> No required capital expenditure.
Private Cloud	<input type="text"/> Provides complete control over security.
Public Cloud	<input type="text"/> Provides a choice to use on-premises or cloud-based resources.

ANS

1 PUBLIC CLOUD

2 PRIVATE CLOUD

3 HYBRID CLOUD

30

Question #62 Topic 1

HOTSPOT -

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
A company can extend a private cloud by adding its own physical servers to the public cloud.	<input type="radio"/>	<input type="radio"/>
To build a hybrid cloud, you must deploy resources to the public cloud.	<input type="radio"/>	<input type="radio"/>
A private cloud must be disconnected from the internet.	<input type="radio"/>	<input type="radio"/>

ANS:

1 NO

2 YES

3 NO

114

Question #63Topic 1

You have 50 virtual machines hosted on-premises and 50 virtual machines hosted in Azure. The on-premises virtual machines and the Azure virtual machines connect to each other. Which type of cloud model is this?

- A. hybrid
- B. private
- C. public

36

Question #64Topic 1

HOTSPOT -

For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
A platform as a service (PaaS) solution that hosts web apps in Azure provides full control of the operating systems that host applications.	<input type="radio"/>	<input type="radio"/>
A Platform as a Service (PaaS) solution that hosts web apps in Azure can be provided with additional memory by changing the pricing tier.	<input type="radio"/>	<input type="radio"/>
A Platform as a Service (PaaS) solution that hosts web apps in Azure can be configured to automatically scale the number of instances based on demand.	<input type="radio"/>	<input type="radio"/>

ANS

1 NO

2 YES

3 YES

73

Question #65Topic 1

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result,

these questions will not appear in the review screen.

Your company plans to migrate all its data and resources to Azure.

The company's migration plan states that only Platform as a Service (PaaS) solutions must be used in Azure.

You need to deploy an Azure environment that meets the company migration plan.

Solution: You create Azure virtual machines, Azure SQL databases, and Azure Storage accounts.

Does this meet the goal?

- A. Yes
- B. No

55

Question #66Topic 1

Your company plans to deploy several custom applications to Azure. The applications will provide invoicing services to the customers of the company. Each application will have several prerequisite applications and services installed.

You need to recommend a cloud deployment solution for all the applications.

What should you recommend?

- A. Software as a Service (SaaS)
- B. Platform as a Service (PaaS)
- C. Infrastructure as a Service (IaaS)

109

Question #67Topic 1

HOTSPOT -

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
Building a data center infrastructure is an example of operational expenditure (OpEx) costs.	<input type="radio"/>	<input type="radio"/>
Monthly salaries for technical personnel are an example of operational expenditure (OpEx) costs.	<input type="radio"/>	<input type="radio"/>
Leasing software is an example of operational expenditure (OpEx) costs.	<input type="radio"/>	<input type="radio"/>

ANS

1 NO

2 YES

3 YES

65

Question #68Topic 1

HOTSPOT -

To complete the sentence, select the appropriate option in the answer area.

Hot Area:

Answer Area

Azure Cosmos DB is an

example of a

platform as a service (PaaS)

infrastructure as a service (IaaS)

serverless

software as a service (SaaS)

offering.

ANS PLATFORM AS A SERVICE

43

Question #69Topic 1

HOTSPOT -

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
With software as a service (SaaS), you must apply software updates.	<input type="radio"/>	<input type="radio"/>
With infrastructure as a service (IaaS), you must install the software that you want to use.	<input type="radio"/>	<input type="radio"/>
Azure Backup is an example of platform as a service (PaaS).	<input type="radio"/>	<input type="radio"/>

ANS :

1 NO

2 YES

3 YES

60

Question #70Topic 1

HOTSPOT -

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
You can create a resource group inside of another resource group.	<input type="radio"/>	<input type="radio"/>
An Azure virtual machine can be in multiple resource groups.	<input type="radio"/>	<input type="radio"/>
A resource group can contain resources from multiple Azure regions.	<input type="radio"/>	<input type="radio"/>

ANS

1 NO

2 NO

3 YES

38



Question #71Topic 1

HOTSPOT -

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:
Answer Area

Statements	Yes	No
Microsoft SQL Server 2019 installed on an Azure virtual machine is an example of platform as a service (PaaS).	<input type="radio"/>	<input type="radio"/>
Azure SQL Database is an example of platform as a service (PaaS).	<input type="radio"/>	<input type="radio"/>
Azure Cosmos DB is an example of software as a service (SaaS).	<input type="radio"/>	<input type="radio"/>

ANS

1 YES

2 NO

3 NO

158

Question #72Topic 1

HOTSPOT -

To complete the sentence, select the appropriate option in the answer area.

Hot Area:

Answer Area

A Microsoft SQL Server database that is hosted in the cloud and has software updates managed by Azure is an example of

- disaster recovery as a service (DRaaS).
- infrastructure as a service (IaaS).
- platform as a service (PaaS).
- software as a service (SaaS).

ANS : PLATFORM AS A SERVICE

35

Question #73Topic 1

Your company plans to migrate all its data and resources to Azure.

The company's migration plan states that only Platform as a Service (PaaS) solutions must be used in Azure.

You need to deploy an Azure environment that meets the company's migration plan.

What should you create?

- A. Azure virtual machines, Azure SQL databases, and Azure Storage accounts.
- B. an Azure App Service and Azure virtual machines that have Microsoft SQL Server installed.
- C. an Azure App Service and Azure SQL databases.

- D. Azure storage accounts and web server in Azure virtual machines.

35

Question #74 Topic 1

What does a customer provide in a software as a service (SaaS) model?

- A. application data
- B. data storage
- C. compute resources
- D. application software

24

Question #75 Topic 1

HOTSPOT -

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
Azure Files is an example of infrastructure as a service (IaaS).	<input type="radio"/>	<input type="radio"/>
A DNS server that runs on an Azure virtual machine is an example of platform as a service (PaaS).	<input type="radio"/>	<input type="radio"/>
Microsoft Intune is an example of software as a service (SaaS).	<input type="radio"/>	<input type="radio"/>

ANS

1 YES

2 YES

3 YES

162

Question #76Topic 1

HOTSPOT -

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
Cloud computing provides elastic scalability.	<input type="radio"/>	<input type="radio"/>
Customers can minimize capital expenditure (CapEx) by using a public cloud.	<input type="radio"/>	<input type="radio"/>
Cloud computing leverages virtualization to provide services to multiple customers simultaneously.	<input type="radio"/>	<input type="radio"/>

ANS :

1 YES

2 YES

3 YES

 28**Question #77Topic 1**

What is the first stage in the Microsoft Cloud Adoption Framework for Azure?

- A. Adopt the cloud.
- B. Make a plan.
- C. Ready your organization.
- D. Define your strategy.

 16**Question #78Topic 1**

HOTSPOT -

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
A company can extend an internal network by adding its own physical servers to the public cloud.	<input type="radio"/>	<input type="radio"/>
A private cloud must be disconnected from the internet.	<input type="radio"/>	<input type="radio"/>
Part of a hybrid cloud is the public cloud.	<input type="radio"/>	<input type="radio"/>

ANS

1 NO

2 NO

3 NO

19

Question #79Topic 1

HOTSPOT -

For each of the following statements, select Yes if the statement is true. Otherwise, select No.
NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
You must have physical servers to use cloud computing.	<input type="radio"/>	<input type="radio"/>
You must have internet connectivity to use cloud computing.	<input type="radio"/>	<input type="radio"/>
The costs to increase cloud computing capacity are less than the costs to increase the computing capacity of an on-premises datacenter.	<input type="radio"/>	<input type="radio"/>

ANS

1 NO

2 NO

3 NO

21

Question #80 Topic 1

DRAG DROP -

Match the cloud computing benefits to the correct descriptions.

To answer, drag the appropriate benefit from the column on the left to its description on the right. Each benefit may be used once, more than once, or not at all.

NOTE: Each correct match is worth one point.

Select and Place:

Answer Area

Benefits

Agility		Resources can be provisioned dynamically to meet changing demands.
Geo-distribution		Applications and data can be deployed to multiple regions.
Scalability		Applications can be developed, tested, and launched rapidly.

ANS

- 1 SCALABILITY
- 2 GEO-DISTRIBUTION
- 3 AGILITY

8



Question #81 Topic 1

HOTSPOT -

Select the answer that correctly completes the sentence.

Hot Area:

Answer Area

Azure Site Recovery provides

	▼
fault tolerance	
disaster recovery	
elasticity	
high availability	

 for virtual machines

ANS : DISASTER RECOVERY

48

Question #82Topic 1

HOTSPOT -

You plan to use Azure to host two apps named App1 and App2. The apps must meet the following requirements:

- ☞ You must be able to modify the code of App1.
- ☞ Administrative effort to manage the operating system of App1 must be minimized.
- ☞ App2 must run interactively with the operating system of the server.

Which type of cloud service should you use for each app? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

App1:

	▼
Infrastructure as a service (IaaS)	
Platform as a service (PaaS)	
Software as a service (SaaS)	

App2:

	▼
Infrastructure as a service (IaaS)	
Platform as a service (PaaS)	
Software as a service (SaaS)	

ANS : 1 PLATFORM AS SERVICE

2 SOFTWARE AS SERVICE

49

Question #83Topic 1

You have an accounting application named App1 that uses a legacy database. You plan to move App1 to the cloud. Which service model should you use?

- A. platform as a service (PaaS)
- B. infrastructure as a service (IaaS)
- C. software as a service (SaaS)

36

Question #84Topic 1

HOTSPOT -

Select the answer that correctly completes the sentence.

Hot Area:

Answer Area

When you are implementing a Software as a Service (SaaS) solution, you are responsible for

	▼
configuring high availability	
defining scalability rules	
installing the SaaS solution	
configuring the SaaS solution	

ANS : CONFIGURING THE SAAS SOLUTION

5

Question #85Topic 1

HOTSPOT -

Select the answer that correctly completes the sentence.

Hot Area:

Answer Area

An Azure web app that queries an on-premises Microsoft SQL server is an example of a

	▼
hybrid	
multi-vendor	
private	
public	

cloud.

ANS : HYBRID

9

Question #86Topic 1

HOTSPOT -

Select the answer that correctly completes the sentence.

Hot Area:

Answer Area

A Microsoft SQL Server database that is hosted in the cloud and has software updates managed by Azure is an example of

- disaster recovery as a service (DRaaS).
- infrastructure as a service (IaaS).
- platform as a service (PaaS).
- software as a service (SaaS).

ANS : PLATFORM AS SERVICE

5

Question #87Topic 1

Which cloud computing model includes on-premises and cloud-based resources?

- A. hybrid
- B. public
- C. private

3

Question #88Topic 1

HOTSPOT -

Select the answer that correctly completes the sentence.

Hot Area:

Answer Area

Autoscaling is an example of

- agility.
- elasticity.
- geo-distribution.
- predictability.

ANS : ELASTICITY

7

Question #89Topic 1

HOTSPOT -

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Statements	Yes	No
Azure virtual networks deployed to the same Azure region are connected by default.	<input type="radio"/>	<input type="radio"/>
Each Azure virtual network in a single resource group must have a unique name.	<input type="radio"/>	<input type="radio"/>
The Azure virtual network's address space must be unique within a subscription.	<input type="radio"/>	<input type="radio"/>

ANS

1 NO

2 YES

3 YES

15

Question #90Topic 1

Which term represents the ability to increase the computing capacity of a virtual machine by adding memory or CPUs?

- A. agility
- B. vertical scaling
- C. horizontal scaling
- D. elasticity

12

!

Question #91Topic 1

What are two benefits of cloud computing? Each correct answer presents a complete solution.

NOTE: Each correct selection is worth one point.

- A. enables the rapid provisioning of resources
- B. has increased administrative complexity
- C. has the same configuration options as on-premises

- D. shifts capital expenditures (CAPEX) to operating expenditures (OPEX)

15

Question #92Topic 1

What is a feature of an Azure virtual network?

- A. resource cost analysis
- B. packet inspection
- C. geo-redundancy
- D. isolation and segmentation

10

Question #93Topic 1

HOTSPOT -

Select the answer that correctly completes the sentence.

Hot Area:

Answer Area

▼
Elasticity
Geo-distribution
High availability
Scalability

enables Azure resources to be deployed close to users.

ANS : GEO-DISTRIBUTION

7

Question #94Topic 1

DRAG DROP -

Match the cloud computing benefits to the appropriate descriptions.

To answer, drag the appropriate benefit from the column on the left to its description on the right. Each benefit may be used once, more than once, or not at all.

NOTE: Each correct match is worth one point.

Select and Place:

Benefits	Answer Area
Disaster recovery	Benefit Increase the compute capacity of apps in the cloud.
Geo-distribution	Benefit Provide a continuous user experience with no apparent downtime.
High availability	Benefit Ensure that users always have the best experience by deploying apps to all the regions where there are users.
Scalability	

ANS :

1 SCALABILITY

2 HIGH AVAILABILITY

3 GEO-DISTRIBUTION

4 DISASTER RECOVERY

11

Question #95Topic 1

Which cloud computing benefit provides continuous user access to a cloud-based application with minimal downtime?

- A. agility
- B. scalability
- C. elasticity
- D. high availability

9

Question #96Topic 1

You need to identify the type of failure for which an Azure Availability Zone can be used to protect access to Azure services.

What should you identify?

- A. a physical server failure
- B. an Azure region failure
- C. a storage failure
- D. an Azure data center failure

Question #97Topic 1

HOTSPOT -

You plan to extend your company's network to Azure.









The network contains a VPN appliance that uses an IP address of 131.107.200.1.

You need to create an Azure resource that defines the VPN appliance in Azure.

Which Azure resource should you create? To answer, select the appropriate resource in the answer area.

Hot Area:

Answer Area

Services		
	NAT gateways	★
	Application gateways	★
	Local network gateways	★
	Virtual network gateways	★
	On-premises Data Gateways	★
	Azure Data Box Gateway	★
	Azure Stack Edge / Data Box Gateway	★
	Web Application Firewall policies	★

ANS : LOCAL NETWORK GATEWAYS

Question #98Topic 1

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You plan to deploy several Azure virtual machines.

You need to ensure that the services running on the virtual machines are available if a single data center fails.

Solution: You deploy the virtual machines to two or more resource groups.

Does this meet the goal?

- A. Yes
- **B. No**

Question #99 Topic 1

Note: This question is part of a series of questions that present the same scenario. Each question in the series contains a unique solution that might meet the stated goals. Some question sets might have more than one correct solution, while others might not have a correct solution.

After you answer a question in this section, you will NOT be able to return to it. As a result, these questions will not appear in the review screen.

You plan to deploy several Azure virtual machines.

You need to ensure that the services running on the virtual machines are available if a single data center fails.

Solution: You deploy the virtual machines to a scale set.

Does this meet the goal?

- A. Yes
- B. No

Question #100 Topic 1

HOTSPOT -

For each of the following statements, select Yes if the statement is true. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Statements	Yes	No
An Azure subscription can be associated to multiple Azure Active Directory (Azure AD) tenants.	<input type="radio"/>	<input type="radio"/>
You can change the Azure Active Directory (Azure AD) tenant to which an Azure subscription is associated.	<input type="radio"/>	<input type="radio"/>
When an Azure subscription expires, the associated Azure Active Directory (Azure AD) tenant is deleted automatically.	<input type="radio"/>	<input type="radio"/>

ANS
1 NO
2 YES
3 NO

SET 2

1.

How is data in a relational table organized?



Rows and Columns



Header and Footer



Pages and Paragraphs

2.

Which of the following is an example of unstructured data?



An Employee table with columns EmployeeID, EmployeeName, and EmployeeDesignation



Audio and Video files



A table within a relational database

3.

What is a data warehouse?



A nonrelational database optimized for read and write operations



A relational database optimized for read operations



A storage location for unstructured data files

1.

Which one of the following tasks is the responsibility of a database administrator?



Backing up and restoring databases



Creating dashboards and reports



Creating pipelines to process data in a data lake

2.

Which role is most likely to use Azure Data Factory to define a data pipeline for an ETL process?



Database Administrator



Data Engineer

☐

Data Analyst

3.

Which single service would you use to implement data pipelines, SQL analytics, and Spark analytics?

☐

Azure SQL Database

☐

Microsoft Power BI

☐

Azure Synapse Analytics

1.

Which one of the following statements is a characteristic of a relational database?

☐

All columns in a table must be of the same data type

☐

A row in a table represents a single instance of an entity

☒

Rows in the same table can contain different columns

2.

Which SQL statement is used to query tables and return data?

☐

QUERY

☐

READ

☐

SELECT

3.

What is an index?

☐

A structure that enables queries to locate rows in a table quickly

☐

A virtual table based on the results of a query

☐

A pre-defined SQL statement that modifies data

1.

Which deployment option offers the best compatibility when migrating an existing SQL Server on-premises solution?

☐

Azure SQL Database (single database)

☒

Azure SQL Database (elastic pool)

☐

Azure SQL Managed Instance

2.

Which of the following statements is true about Azure SQL Database?

☒

Most database maintenance tasks are automated

☐

You must purchase a SQL Server license

☐

It can only support one database

3.

Which database service is the simplest option for migrating a LAMP application to Azure?

☐

Azure SQL Managed Instance

☒

Azure Database for MySQL

☐

Azure Database for PostgreSQL

1.

What are the elements of an Azure Table storage key?

☐

Table name and column name

☐

Partition key and row key

☐

Row number

2.

What should you do to an existing Azure Storage account in order to support a data lake for Azure Synapse Analytics?

☐

Add an Azure Files share

☐

Create Azure Storage tables for the data you want to analyze

☐

Upgrade the account to enable hierarchical namespace and create a blob container

3.

Why might you use Azure File storage?



To share files that are stored on-premises with users located at other sites.



To enable users at different sites to share files.



To store large binary data files containing images or other unstructured data.

SET 3

1. Which SQL function is used to count the number of rows in a SQL query?
 - a) COUNT()
 - b) NUMBER()
 - c) SUM()
 - d) COUNT(*)
2. Which SQL keyword is used to retrieve a maximum value?
 - a) MOST
 - b) TOP
 - c) MAX
 - d) UPPER
3. Which of the following SQL clauses is used to DELETE tuples from a database table?
 - a) DELETE
 - b) REMOVE
 - c) DROP
 - d) CLEAR
4. _____ removes all rows from a table without logging the individual row deletions.
 - a) DELETE
 - b) REMOVE
 - c) DROP
 - d) TRUNCATE
5. Which of the following is not a DDL command?
 - a) UPDATE
 - b) TRUNCATE
 - c) ALTER
 - d) None of the Mentioned
6. Which of the following are TCL commands?
 - a) UPDATE and TRUNCATE
 - b) SELECT and INSERT
 - c) GRANT and REVOKE
 - d) ROLLBACK and SAVEPOINT
7. _____ is not a category of SQL command.
 - a) TCL
 - b) SCL

- c) DCL
- d) DDL

8. If you don't specify ASC or DESC after a SQL ORDER BY clause, the following is used by default _____

- a) ASC
- b) DESC
- c) There is no default value
- d) None of the mentioned

9. Which of the following statement is true?

- a) DELETE does not free the space containing the table and TRUNCATE free the space containing the table
- b) Both DELETE and TRUNCATE free the space containing the table
- c) Both DELETE and TRUNCATE does not free the space containing the table
- d) DELETE free the space containing the table and TRUNCATE does not free the space containing the table

10. What is the purpose of the SQL AS clause?

- a) The AS SQL clause is used to change the name of a column in the result set or to assign a name to a derived column
- b) The AS clause is used with the JOIN clause only
- c) The AS clause defines a search condition
- d) All of the mentioned

11. What does DML stand for?

- a) Different Mode Level
- b) Data Model Language
- c) Data Mode Lane
- d) Data Manipulation language

12. With SQL, how do you select all the records from a table named "Persons" where the value of the column "FirstName" ends with an "a"?

- a) SELECT * FROM Persons WHERE FirstName='a'
- b) SELECT * FROM Persons WHERE FirstName LIKE 'a%'
- c) SELECT * FROM Persons WHERE FirstName LIKE '%a'
- d) SELECT * FROM Persons WHERE FirstName='%a%'

13. With SQL, how can you return all the records from a table named "Persons" sorted descending by "FirstName"?

- a) SELECT * FROM Persons SORT BY 'FirstName' DESC
- b) SELECT * FROM Persons ORDER FirstName DESC
- c) SELECT * FROM Persons SORT 'FirstName' DESC

d) SELECT * FROM Persons ORDER BY FirstName DESC

14. With SQL, how can you return the number of not null records in the "Persons" table?

- a) SELECT COUNT() FROM Persons
- b) SELECT COLUMNS() FROM Persons
- c) SELECT COLUMNS(*) FROM Persons
- d) SELECT COUNT(*) FROM Persons

15. What does the ALTER TABLE clause do?

- a) The SQL ALTER TABLE clause modifies a table definition by altering, adding, or deleting table columns and/or constraints
- b) The SQL ALTER TABLE clause is used to insert data into database table
- c) THE SQL ALTER TABLE deletes data from database table
- d) The SQL ALTER TABLE clause is used to delete a database table

16. The UPDATE SQL clause can _____

- a) update only one row at a time
- b) update more than one row at a time
- c) delete more than one row at a time
- d) delete only one row at a time

17. The UNION SQL clause can be used with _____

- a) SELECT clause only
- b) DELETE and UPDATE clauses
- c) UPDATE clause only
- d) All of the mentioned

18. Which SQL statement is used to return only different values?

- a) SELECT DIFFERENT
- b) SELECT UNIQUE
- c) SELECT DISTINCT
- d) SELECT ALL

19. Which SQL keyword is used to sort the result-set?

- a) ORDER BY
- b) SORT
- c) ORDER
- d) SORT BY

20. How can you change "Hansen" into "Nilsen" in the "LastName" column in the Persons table?

- a) UPDATE Persons SET LastName='Hansen' INTO LastName='Nilsen'
- b) MODIFY Persons SET LastName='Nilsen' WHERE LastName='Hansen'

- c) MODIFY Persons SET LastName='Hansen' INTO LastName='Nilsen'
- d) UPDATE Persons SET LastName='Nilsen' WHERE LastName='Hansen'

21. Which of the following command makes the updates performed by the transaction permanent in the database?

- a) ROLLBACK
- b) COMMIT
- c) TRUNCATE
- d) DELETE

22. Which TCL command undo all the updates performed by the SQL in the transaction?

- a) ROLLBACK
- b) COMMIT
- c) TRUNCATE
- d) DELETE

23. SQL query to find all the cities whose humidity is 95.

- a) SELECT city WHERE humidity = 95
- b) SELECT city FROM weather WHERE humidity = 95
- c) SELECT humidity = 89 FROM weather
- d) SELECT city FROM weather

24. SQL query to find the temperature in increasing order of all cities.

- a) SELECT city FROM weather ORDER BY temperature
- b) SELECT city, temperature FROM weather
- c) SELECT city, temperature FROM weather ORDER BY temperature
- d) SELECT city, temperature FROM weather ORDER BY city

25. What is the meaning of LIKE '%0%0%'?

- a) Feature begins with two 0's
- b) Feature ends with two 0's
- c) Feature has more than two 0's
- d) Feature has two 0's in it, at any position

26. Find the names of these cities with temperature and condition whose condition is neither sunny nor cloudy.

- a) SELECT city, temperature, condition FROM weather WHERE condition NOT IN ('sunny', 'cloudy')
- b) SELECT city, temperature, condition FROM weather WHERE condition NOT BETWEEN ('sunny', 'cloudy')
- c) SELECT city, temperature, condition FROM weather WHERE condition IN ('sunny',

'cloudy')

d) SELECT city, temperature, condition FROM weather WHERE condition BETWEEN ('sunny', 'cloudy');

27. Find the name of those cities with temperature and condition whose condition is either sunny or cloudy but temperature must be greater than 70.

a) SELECT city, temperature, condition FROM weather WHERE condition = 'sunny' AND condition = 'cloudy' OR temperature > 70

b) SELECT city, temperature, condition FROM weather WHERE condition = 'sunny' OR condition = 'cloudy' OR temperature > 70

c) SELECT city, temperature, condition FROM weather WHERE condition = 'sunny' OR condition = 'cloudy' AND temperature > 70

d) SELECT city, temperature, condition FROM weather WHERE condition = 'sunny' AND condition = 'cloudy' AND temperature > 70

28. Find all the tuples having a temperature greater than 'Paris'.

a) SELECT * FROM weather WHERE temperature > (SELECT temperature FROM weather WHERE city = 'Paris')

b) SELECT * FROM weather WHERE temperature > (SELECT * FROM weather WHERE city = 'Paris')

c) SELECT * FROM weather WHERE temperature > (SELECT city FROM weather WHERE city = 'Paris')

d) SELECT * FROM weather WHERE temperature > 'Paris' temperature

29. Find all the cities with temperature, condition and humidity whose humidity is in the range of 63 to 79.

a) SELECT * FROM weather WHERE humidity IN (63 to 79)

b) SELECT * FROM weather WHERE humidity NOT IN (63 AND 79)

c) SELECT * FROM weather WHERE humidity BETWEEN 63 AND 79

d) SELECT * FROM weather WHERE humidity NOT BETWEEN 63 AND 79

30. The command to remove rows from a table 'CUSTOMER' is _____

a) DROP FROM CUSTOMER

b) UPDATE FROM CUSTOMER

c) REMOVE FROM CUSTOMER

d) DELETE FROM CUSTOMER WHERE

31. Which of the following command makes the updates performed by the transaction permanent in the database?

a) ROLLBACK

b) COMMIT

c) TRUNCATE

d) DELETE

32. Which TCL command undo all the updates performed by the SQL in the transaction?

- a) ROLLBACK
- b) COMMIT
- c) TRUNCATE
- d) DELETE

33. SQL query to find all the cities whose humidity is 95.

- a) SELECT city WHERE humidity = 95
- b) SELECT city FROM weather WHERE humidity = 95
- c) SELECT humidity = 89 FROM weather
- d) SELECT city FROM weather

34. SQL query to find the temperature in increasing order of all cities.

- a) SELECT city FROM weather ORDER BY temperature
- b) SELECT city, temperature FROM weather
- c) SELECT city, temperature FROM weather ORDER BY temperature
- d) SELECT city, temperature FROM weather ORDER BY city

35. What is the meaning of LIKE '%0%0%'?

- a) Feature begins with two 0's
- b) Feature ends with two 0's
- c) Feature has more than two 0's
- d) Feature has two 0's in it, at any position

36. Find the names of these cities with temperature and condition whose condition is neither sunny nor cloudy.

- a) SELECT city, temperature, condition FROM weather WHERE condition NOT IN ('sunny', 'cloudy')
- b) SELECT city, temperature, condition FROM weather WHERE condition NOT BETWEEN ('sunny', 'cloudy')
- c) SELECT city, temperature, condition FROM weather WHERE condition IN ('sunny', 'cloudy')
- d) SELECT city, temperature, condition FROM weather WHERE condition BETWEEN ('sunny', 'cloudy');

37. Find the name of those cities with temperature and condition whose condition is either sunny or cloudy but temperature must be greater than 70.

- a) SELECT city, temperature, condition FROM weather WHERE condition = 'sunny' AND condition = 'cloudy' OR temperature > 70
- b) SELECT city, temperature, condition FROM weather WHERE condition = 'sunny' OR condition = 'cloudy' OR temperature > 70
- c) SELECT city, temperature, condition FROM weather WHERE condition = 'sunny' OR condition = 'cloudy' AND temperature > 70

d) SELECT city, temperature, condition FROM weather WHERE condition = 'sunny' AND condition = 'cloudy' AND temperature > 70

38. Find all the tuples having a temperature greater than 'Paris'.

a) SELECT * FROM weather WHERE temperature > (SELECT temperature FROM weather WHERE city = 'Paris')

b) SELECT * FROM weather WHERE temperature > (SELECT * FROM weather WHERE city = 'Paris')

c) SELECT * FROM weather WHERE temperature > (SELECT city FROM weather WHERE city = 'Paris')

d) SELECT * FROM weather WHERE temperature > 'Paris' temperature

39. Find all the cities with temperature, condition and humidity whose humidity is in the range of 63 to 79.

a) SELECT * FROM weather WHERE humidity IN (63 to 79)

b) SELECT * FROM weather WHERE humidity NOT IN (63 AND 79)

c) SELECT * FROM weather WHERE humidity BETWEEN 63 AND 79

d) SELECT * FROM weather WHERE humidity NOT BETWEEN 63 AND 79

40. The command to remove rows from a table 'CUSTOMER' is _____

a) DROP FROM CUSTOMER

b) UPDATE FROM CUSTOMER

c) REMOVE FROM CUSTOMER

d) DELETE FROM CUSTOMER WHERE

41. Aggregate functions are functions that take a _____ as input and return a single value.

a) Collection of values

b) Single value

c) Double value

d) All of the mentioned

42. SQL applies predicates in the _____ clause after groups have been formed, so aggregate functions may be used.

a) Group by

b) With

c) Where

d) Having

43. The _____ keyword is used to access attributes of preceding tables or subqueries in the from clause.

a) In

b) Lateral

c) Having

d) With

44. Which of the following is not an aggregate function?

- a) Avg
- b) Sum
- c) With
- d) Min

45. If we do want to eliminate duplicates, we use the keyword _____ in the aggregate expression.

- a) Distinct
- b) Count
- c) Avg
- d) Primary key

46. All aggregate functions except _____ ignore null values in their input collection.

- a) Count(attribute)
- b) Count(*)
- c) Avg
- d) Sum

47. A Boolean data type that can take values true, false, and _____

- a) 1
- b) 0
- c) Null
- d) Unknown

48. Which of the following should be used to find all the courses taught in the Fall 2009 semester but not in the Spring 2010 semester?

a)

```
SELECT DISTINCT course_id
FROM SECTION
WHERE semester = 'Fall' AND YEAR= 2009 AND
course_id NOT IN (SELECT course_id FROM SECTION WHERE semester = 'Spring' AND YEAR= 2010);
```

b)

```
SELECT DISTINCT course_id
FROM instructor
WHERE name NOT IN ('Fall', 'Spring');
```

c)

```
SELECT course id
FROM SECTION
WHERE semester = 'Spring' AND YEAR= 2010);
```

d)

```
SELECT COUNT (DISTINCT ID)
FROM takes
WHERE (course id, sec id, semester, YEAR) IN (SELECT course id, sec id, semester, YEAR
FROM teaches
WHERE teaches.ID= 10101);
```

49. The phrase “greater than at least one” is represented in SQL by _____

- a) < all
- b) < some
- c) > all
- d) > some

50. We can test for the nonexistence of tuples in a subquery by using the _____ construct.

- a) Not exist
- b) Not exists
- c) Exists
- d) Exist

61. Which of the following service provider provides the highest level of service?

- a) SaaS
- b) PaaS
- c) IaaS
- d) All of the mentioned

62. Point out the correct statement.

- a) PaaS supplies the infrastructure
- b) IaaS adds application development frameworks, transactions, and control structures
- c) SaaS is an operating environment with applications, management, and the user interface
- d) All of the mentioned

63. Which of the following functional cloud computing hardware/software stack is the Cloud Reference Model?

- a) CAS

b) CSA

c) SAC

d) All of the mentioned

64. For the _____ model, the security boundary may be defined for the vendor to include the software framework and middleware layer.

a) SaaS

b) PaaS

c) IaaS

d) All of the mentioned

65. Point out the wrong statement.

a) Each different type of cloud service delivery model creates a security boundary

b) Any security mechanism below the security boundary must be built into the system

c) Any security mechanism above the security boundary must be maintained by the customer

d) All of the mentioned

66. Which of the following model allows vendor to provide security as part of the Service Level Agreement?

a) SaaS

b) PaaS

c) IaaS

d) All of the mentioned

67. Which of the following cloud does not require mapping?

a) Public

b) Private

c) Hybrid

d) None of the mentioned

68. Which of the following service model is owned in terms of infrastructure by both vendor and customer?

a) Public

b) Private

c) Hybrid

d) None of the mentioned

69. Which of the following model type is not trusted in terms of security?

a) Public

b) Private

c) Hybrid

d) None of the mentioned

70. Which of the following has infrastructure security managed and owned by the vendor?

a) Hybrid

b) Private/Community

c) Public

d) None of the mentioned

SET 4

This set of SQL Server Multiple Choice Questions & Answers (MCQs) focuses on "Data Types".

1. Which of the following is a large object data type?

- a) varchar(max)
- b) varbinary(max)
- c) nvarchar(max)
- d) image

2. Data types in SQL Server are organized into how many categories?

- a) 6
- b) 8
- c) 9
- d) 10

3. Exact Numeric data type is _____

- a) bigint
- b) int
- c) smallmoney
- d) all of the mentioned

4. ntext data type falls under which category?

- a) Exact numerics
- b) Character strings
- c) Unicode character strings
- d) None of the mentioned

5. A column of type _____ may contain rows of different data types.

- a) ntext
- b) date
- c) smallmoney
- d) sql_variant

6. You want to track date and time of the last write access per row?

- a) Add **TIMESTAMP** column to the table
- b) Add a DATETIME column to the table and assign getdate() as the default value
- c) Add a DATETIME column to the table and write a trigger that sets its value
- d) Add a UNIQUEIDENTIFIER column to the table and use it with SQL Server's built-in functions

7. _____ is a spatial data type.

- a) geometry
- b) sql_variant
- c) cursor
- d) all of the mentioned

8. Which of the following data type is not present in SQL Server?

- a) bit
- b) boolean
- c) hierarchyid

d) geography

9. _____ is monetary data type in SQL Server.

- a) Smallmoney
- b) sql_variant
- c) Cursor
- d) None of the Mentioned

10. Which of the data type has a storage size of 8 bytes?

- a) timestamp
- b) uniqueidentifier
- c) real
- d) smallmoney

This set of SQL Server Multiple Choice Questions & Answers (MCQs) focuses on "Joins".

1. What type of join is needed when you wish to include rows that do not have matching values?

- a) Equi-join
- b) Natural join
- c) Outer join
- d) All of the Mentioned

2. What type of join is needed when you wish to return rows that do have matching values?

- a) Equi-join
- b) Natural join
- c) Outer join
- d) All of the Mentioned

3. Which of the following is one of the basic approaches for joining tables?

- a) Subqueries
- b) Union Join
- c) Natural join
- d) All of the Mentioned

4. The following SQL is which type of join: SELECT CUSTOMER_T. CUSTOMER_ID, ORDER_T. CUSTOMER_ID, NAME, ORDER_ID FROM CUSTOMER_T,ORDER_T WHERE CUSTOMER_T. CUSTOMER_ID = ORDER_T. CUSTOMER_ID?

- a) Equi-join
- b) Natural join
- c) Outer join
- d) Cartesian join

5. A UNION query is which of the following?

- a) Combines the output from no more than two queries and must include the same number of columns
- b) Combines the output from no more than two queries and does not include the same number of columns

c) Combines the output from multiple queries and must include the same number of columns

d) Combines the output from multiple queries and does not include the same number of columns

6. Which of the following statements is true concerning subqueries?

a) Involves the use of an inner and outer query

b) Cannot return the same result as a query that is not a subquery

c) Does not start with the word SELECT

d) All of the mentioned

7. Which of the following is a correlated subquery?

a) Uses the result of an inner query to determine the processing of an outer query

b) Uses the result of an outer query to determine the processing of an inner query

c) Uses the result of an inner query to determine the processing of an inner query

d) Uses the result of an outer query to determine the processing of an outer query

8. How many tables may be included with a join?

a) One

b) Two

c) Three

d) All of the Mentioned

9. The following SQL is which type of join:

```
SELECT CUSTOMER_T. CUSTOMER_ID ,  
ORDER_T.CUSTOMER_ID, NAME, ORDER_ID FROM  
CUSTOMER_T,ORDER_T?
```

a) Equi-join

b) Natural join

c) Outer join

d) Cartesian join

10. Which is not a type of join in T-SQL?

a) Equi-join

b) Natural join

c) Outer join

d) Cartesian join

This set of SQL Server Multiple Choice Questions & Answers (MCQs) focuses on "Modifying Data – 1".

1. The query given below will give an error. Which one of the following has to be replaced to get the desired output?

```
SELECT ID, name FROM 1_Order WHERE instructor=1;
```

- a) Order
- b) 2Order
- c) 3Order
- d) Instructor

2. The following query can be replaced by which one of the following?

```
SELECT name, course_id  
FROM instructor, teaches  
WHERE instructor_ID= teaches_ID;
```

a)

```
SELECT name, course_id  
FROM teaches, instructor  
WHERE instructor_id=course_id;
```

b)

```
SELECT name, course_id  
FROM instructor NATURAL JOIN teaches;
```

c)

```
SELECT name ,course_id  
FROM instructor;
```

d)

```
SELECT course_id  
FROM instructor JOIN teaches;
```

3. Select * from employee where salary>10000 and dept_id=101;
Which of the following fields are displayed as output?

- a) Salary, dept_id
- b) Employee
- c) Salary
- d) All the field of employee relation

4. Which of the following statements contains an error?

a)

```
SELECT * FROM emp
```



```
WHERE empid = 10003;
```

b)

```
SELECT empid  
FROM emp  
WHERE empid = 10006;
```

c) Select empid from emp;

d)

```
SELECT empid  
WHERE empid = 1009 AND lastname = 'GELLER';
```

5. Insert into employee _____ (1002,Joey,2000);
In the given query which of the keyword has to be inserted?

- a) Table
- b) Values
- c) Relation
- d) Field

6. To delete a database _____ command is used.

- a) Delete database database_name
- b) Delete database_name
- c) drop database database_name
- d) drop database_name

7. The _____ is essentially used to search for patterns in target string.

- a) Like Predicate
- b) Null Predicate
- c) In Predicate
- d) Out Predicate

8. Which is a duplicate copy of a file program that is stored on a different storage media than the original location?

- a) Concurrency
- b) Deadlock
- c) Backup
- d) Recovery

9. _____ joins are SQL server default.

- a) Outer
- b) Inner
- c) Equi
- d) None of the Mentioned

10. To alter a database _____ command is used.

- a) ALTER database database_name

- b) ALTER database_name
- c) ALTER database database_name
- d) ALTER database_name

This set of SQL Server Questions and Answers for experienced people focuses on "Modifying Data – 2".

1. The EXISTS keyword will be true if _____

- a) Any row in the subquery meets the condition only
- b) All rows in the subquery fail the condition only
- c) Both of these two conditions are met
- d) Neither of these two conditions is met

2. Which of the following is an aggregate function?

- a) Average
- b) Sum
- c) With
- d) Minimum

3. The command _____ such tables are available only within the transaction executing the query, and are dropped when the transaction finishes.

- a) Create table
- b) Create temporary table
- c) Create view
- d) Create label view

4. In the query given above which one of the following is a temporary relation?

```
WITH max_budget (VALUE) AS
(SELECT MAX(budget)
FROM department)
SELECT budget
FROM department, max_budget
WHERE department.budget = MAX budget.value;
```

- a) Budget
- b) Department
- c) Value
- d) Max_budget

5. Aggregate functions can be used in the select list or the _____ clause of a select statement or subquery. They cannot be used in a _____ clause.

- a) Where, having
- b) Having, where
- c) Group by, having

d) Group by, where

6. Which is the duplication of computer operations and routine backups to combat any unforeseen problems?

- a) Concurrency
- b) Deadlock
- c) Backup
- d) Recovery

7. The UNION SQL clause can be used with _____

- a) SELECT clause only
- b) DELETE and UPDATE clauses
- c) UPDATE clause only
- d) All of the mentioned

8. Find all the tuples having temperature greater than 'Paris'.

a)

```
SELECT * FROM weather
WHERE temperature > (SELECT temperature FROM weather WHERE city = 'Paris')
```

b)

```
SELECT * FROM weather
WHERE temperature > (SELECT * FROM weather WHERE city = 'Paris')
```

c)

```
SELECT * FROM weather
WHERE temperature > (SELECT city FROM weather WHERE city = 'Paris')
```

d)

```
SELECT * FROM weather
WHERE temperature > 'Paris' temperature
```

9. Which of the following statement is true?

- a) DELETE does not free the space containing the table and TRUNCATE free the space containing the table
- b) Both DELETE and TRUNCATE free the space containing the table
- c) Both DELETE and TRUNCATE does not free the space containing the table
- d) DELETE free the space containing the table and TRUNCATE does not free the space containing the table

10. How can you change "Hansen" into "Nilsen" in the "LastName" column in the Persons table?

a)

```
UPDATE Persons
SET LastName='Hansen' INTO LastName='Nilsen'
```

b)

```
MODIFY Persons
SET LastName='Nilsen' WHERE LastName='Hansen'
```

c)

```
MODIFY Persons
SET LastName='Hansen' INTO LastName='Nilsen'
```

d)

```
UPDATE Persons
SET LastName='Nilsen' WHERE LastName='Hansen'
```

This set of SQL Server Multiple Choice Questions & Answers (MCQs) focuses on “Constraints”.

1. Which of the following is not a class of constraint in SQL Server?

- a) NOT NULL
- b) CHECK
- c) NULL
- d) UNIQUE

2. Point out the correct statement.

- a) CHECK constraints enforce domain integrity
- b) UNIQUE constraints enforce the uniqueness of the values in a set of columns
- c) In a UNIQUE constraint, no two rows in the table can have the same value for the columns
- d) All of the mentioned

3. Which of the following constraint does not enforce uniqueness?

- a) UNIQUE
- b) Primary key
- c) Foreign key
- d) None of the mentioned

4. Constraints can be applied on _____

- a) Column
- b) Table
- c) Field
- d) All of the mentioned

5. Point out the wrong statement.

- a) Table constraints must be used when more than one column must be included in a constraint

- b) A column constraint is specified as part of a column definition and applies only to that column
- c) A table constraint is declared independently from a column definition and can apply to more than one column in a table

d) Primary keys allow for NULL as one of the unique values

6. Purpose of foreign key constraint in SQL Server is _____

a) FOREIGN KEY constraints identify and enforce the relationships between tables

- b) A foreign key in one table points to a candidate key in another table
- c) You cannot insert a row with a foreign key value, except NULL, if there is no candidate key with that value
- d) None of the mentioned

7. Which of the following is not a foreign key constraint?

- a) NO ACTION
- b) CASCADE**
- c) SET NULL
- d) All of the mentioned

8. Which of the following foreign key constraint specifies that the deletion fails with an error?

- a) NO ACTION**
- b) CASCADE
- c) SET NULL
- d) All of the mentioned

9. How many types of constraints are present in SQL Server?

- a) 4
- b) 5
- c) 6**
- d) 7

10. Which of the constraint can be enforced one per table?

- a) Primary key constraint**
- b) Not Null constraint
- c) Foreign Key constraint
- d) Check constraint

This set of SQL Server Multiple Choice Questions & Answers (MCQs) focuses on "Subqueries".

1. Select _____ from instructor where dept name= 'Comp. Sci.';

Which of the following should be used to find the mean of the salary?

- a) Mean(salary)
- b) Avg(salary)**
- c) Sum(salary)
- d) Count(salary)

2. The _____ connective tests for set membership, where the set is a collection of values produced by a select clause. The _____ connective tests for the absence of

set membership.

- a) Or, in
- b) Not in, in
- c) In, not in
- d) In, or

3. Select ID, GPA from student grades order by GPA _____
In order to give only 10 rank on the whole we should use.

- a) Limit 10
- b) Upto 10
- c) Only 10
- d) Max 10

4. Suppose we are given a view tot credits (year, num credits) giving the total number of credits taken by students in each year. The query that computes averages over the 3 preceding tuples in the specified sort order is _____

a)

```
SELECT YEAR, avg(num credits)
OVER (ORDER BY YEAR ROWS 3 preceding) AS avg total credits
FROM tot credits;
```

b)

```
SELECT YEAR, avg(num credits)
OVER (ORDER BY YEAR ROWS 3 unbounded preceding) AS avg total credits
FROM tot credits;
```

c)

```
SELECT YEAR, MIN(num credits)
OVER (ORDER BY YEAR ROWS 3 unbounded preceding) AS avg total credits
FROM tot credits;
```

d)

```
SELECT YEAR, SUM(num credits)
OVER (ORDER BY YEAR ROWS 3 unbounded preceding) AS avg total credits
FROM tot credits;
```

5. Which of the following is not the function of client?

- a) Compile queries
- b) Query optimization
- c) Receive queries
- d) Result formatting and presentation

6. Which server can join the indexes when only multiple indexes combined can cover the query?

a) SQL

- b) DBMS
- c) RDBMS
- d) All of the mentioned

7. Select _____ dept_name from instructor;

Here which of the following displays the unique values of the column?

- a) All
- b) From
- c) Distinct
- d) Name

8. Select ID, name, dept name, salary * 1.1 where instructor;

The query given below will not give an error. Which one of the following has to be replaced to get the desired output?

- a) Salary*1.1
- b) ID
- c) Where
- d) Instructor

9. Select * from student join takes using (ID);

The above query is equivalent to _____

- a) Select * from student inner join takes using (ID);
- b) Select * from student outer join takes using (ID);
- c) Select * from student left outer join takes using (ID);
- d) All of the mentioned

10. The _____ clause allows us to select only those rows in the result relation of the _____ clause that satisfy a specified predicate.

- a) Where, from
- b) From, select
- c) Select, from
- d) From, where