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Mathematics Exam Paper 1 Grade 7

Numbers, Operations, Fractions, Decimals, Functions, Relationships, Algebra, Data

Question 1: Circle the correct answer from the options given: (10)

1.1 What is the number value of the underlined digit: 876, 231?

a) 20 b) 0,02 c) $\frac{1}{100}$ d) $\frac{2}{100}$

1.2 Which one of the following is the number 234 000 written in words to the nearest thousand?

a) 234 000 b) 234 100 c) 234 000 d) 234 055

1.3 What is the product of the first three square numbers?

a) 36 b) 216

1.4 Which one would make the following equation true: $\sqrt{125} \times \sqrt{64}$

a) $\sqrt{125} + \sqrt{64}$ b) $\sqrt{125} \times \sqrt{64}$ c) $\sqrt{5} \times 8$ d) $\sqrt{5} + 8$

1.5 The difference between the eighth and the second term of an arithmetic sequence is 12. What is the common difference?

a) 15 b) 12 c) 6 d) 16

1.6 Select the terminating decimal:

a) $\frac{5}{7}$ b) $\sqrt{2}$ c) $\frac{1}{3}$ d) $\frac{9}{12}$

1.7 If x is a prime number between 10 and 15, the value of y in $2x = y$ will be between:

a) 122 and 126 b) 122 and 124 c) 121 and 135 d) 122 and 130

1.8 Calculate the answer: $(-4)^2 \times (-3 - 4)$

a) 17 b) 4 c) 7 d) -84

1.9 Find the difference in value between the underlined digits in 7 803 167:

a) 69 993 b) 69 993 c) 6 999 993 d) 6 999 930

1.10 What is the quotient of the 15th multiple of 15 and the 9th multiple of 2?

a) 10 b) 100 c) 100 d) 162

Question 2: Match column A to column B. Write only the letter of the answer. (5)

Column A	Answer	Column B
1. Cube root of 8		A. 0
2. Square root of 1		B. 1
3. 3^6		C. $\sqrt[3]{64}$
4. Number of factors of 64		D. 64
5. Inverse operation of 4^2		E. 2

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The goal of a Microsoft DP-300 mock exam is to test exam readiness. Braindumpsqa's online Administering Relational Databases on Microsoft Azure DP-300 practice test can be accessed online through all major browsers such as Chrome, Firefox, Safari, and Edge. You can also download and install the offline version of Administering Relational Databases on Microsoft Azure DP-300 Practice Exam software on Windows-based PCs only. You can prepare for the Administering Relational Databases on Microsoft Azure exam without an internet connection using the offline version of the mock exam.

Career Prospects

As a certified Azure database administrator, there are different job roles that you can explore. These include a Database Administrator, a Database Engineer, a Database Architect, a System Administrator, an IT Azure Cloud Engineer, and a Service Engineer, among others. The average salary to expect from any of these positions is \$77,670 per annum. However, the professionals with advanced experience can earn above the average industry standard.

The DP-300 certification exam covers a wide range of topics such as designing and implementing database solutions on Azure, managing and monitoring databases, implementing security and high availability, and optimizing database performance. DP-300 Exam also focuses on advanced topics such as Azure SQL Database Managed Instance, Azure SQL Data Warehouse, and Azure Cosmos DB.

To prepare for the DP-300 certification exam, Microsoft offers a range of resources, including online training courses, practice

exams, and study guides. These resources can help you familiarize yourself with the exam format, identify areas where you need to improve, and build your confidence before taking the exam.

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Microsoft Administering Relational Databases on Microsoft Azure Sample Questions (Q261-Q266):

NEW QUESTION # 261

You have an Azure subscription.

You need to deploy an Azure SQL resource that will support cross database queries by using an Azure Resource Manager (ARM) template.

How should you complete the ARM template? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Answer Area

```
"resources": [
  ...
  "type":
    Microsoft.Sql/servers
    Microsoft.Sql/servers/databases
    Microsoft.Sql/managedInstances
  "name": "[parameters('targetName')]",
  "location": "[parameters('location')]",
  "sku": {
    "name": "[parameters('skuName')]"
  }
  ...
  "dependsOn": [
    "[parameters('targetName')]",
    "[parameters('virtualNetworkName')]",
    "[variables('networkSecurityGroupName')]"
  ],
  "properties": {
    "administratorLogin": "[parameters('administratorLogin')]",
    "administratorLoginPassword": "[parameters('administratorLoginPassword')]",
    "subnetId": "[resourceId('Microsoft.Network/virtualNetworks/subnets', parameters('virtualNetworkName'), parameters('virtualNetworkName'), parameters('subnetName'))]",
    "storageSizeInGB": "[parameters('storageSizeInGB')]",
    "vCores": "[parameters('vCores')]",
    "licenseType": "[parameters('licenseType')]"
  }
  ...
]
```

Microsoft

Answer:

Explanation:

Answer Area



```
"resources": [
  ...
  "type": "Microsoft.Sql/servers",
  "name": "[parameters('targetName')]",
  "location": "[parameters('location')]",
  "sku": {
    "name": "[parameters('skuName')]"
  },
  ...
  "dependsOn": [
    "[parameters('targetName')]",
    "[parameters('virtualNetworkName')]",
    "[variables('networkSecurityGroupName')]",
  ],
  "properties": {
    "administratorLogin": "[parameters('administratorLogin')]",
    "administratorLoginPassword": "[parameters('administratorLoginPassword')]",
    "subnetId": "[resourceId('Microsoft.Network/virtualNetworks/subnets', parameters('virtualNetworkName'), parameters('virtualNetworkName'), parameters('subnetName'))]",
    "storageSizeInGB": "[parameters('storageSizeInGB')]",
    "vCores": "[parameters('vCores')]",
    "licenseType": "[parameters('licenseType')]"
  },
  ...
]
```

Explanation:

```
"resources": [
  ...
  "type": "Microsoft.Sql/servers",
  "name": "[parameters('targetName')]",
  "location": "[parameters('location')]",
  "sku": {
    "name": "[parameters('skuName')]"
  },
  ...
  "dependsOn": [
    "[parameters('targetName')]",
    "[parameters('virtualNetworkName')]",
    "[variables('networkSecurityGroupName')]",
  ],
  "properties": {
    "administratorLogin": "[parameters('administratorLogin')]",
    "administratorLoginPassword": "[parameters('administratorLoginPassword')]",
    "subnetId": "[resourceId('Microsoft.Network/virtualNetworks/subnets', parameters('virtualNetworkName'), parameters('virtualNetworkName'), parameters('subnetName'))]",
    "storageSizeInGB": "[parameters('storageSizeInGB')]",
    "vCores": "[parameters('vCores')]",
    "licenseType": "[parameters('licenseType')]"
  },
  ...
]
```

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/managed-instance/create-template-quickstart?tabs=azure-powershell>

NEW QUESTION # 262

You have an Azure subscription that contains 50 instances of SQL Server on Azure Virtual Machines. The instances host 500 Azure SQL databases. You need to ensure that all the databases have the same configuration. The solution must meet the following requirements:

- * Auditing must be enabled.

- * Azure Defender must be enabled.
- * Public network access must be disabled.
- * Administrative effort must be minimized.

Which two resources should you create in the subscription? Each correct answer presents part of the solution.

NOTE: Each correct selection is worth one point.

- A. an Azure Automation runbook
- **B. an Azure Policy definition**
- C. an Azure Automation account
- **D. an Azure Policy initiative**
- E. an Azure Policy assignment

Answer: B,D

NEW QUESTION # 263

You are evaluating the role assignments.

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

NOTE: Each correct selection is worth one point.

Statements	Yes	No
DBAGroup1 will be able to sign in to each customer's Azure SQL database by using Azure Data Studio.	☐	☐
DBAGroup1 will be able to assign the SQL DB Contributor role to other users.	☐	☐
DBAGroup2 will be able to create a new Azure SQL database on each customer's Azure SQL Database server.	☐	☐

Answer:

Explanation:

Statements	Yes	No
DBAGroup1 will be able to sign in to each customer's Azure SQL database by using Azure Data Studio.	☒	☐
DBAGroup1 will be able to assign the SQL DB Contributor role to other users.	☐	☒
DBAGroup2 will be able to create a new Azure SQL database on each customer's Azure SQL Database server.	☒	☐

Reference:

<https://docs.microsoft.com/en-us/azure/role-based-access-control/built-in-roles>

NEW QUESTION # 264

You have an Azure Active Directory (Azure AD) tenant named contoso.com that contains a user named user1@contoso.com and an Azure SQL managed instance named SQLMI1.

You need to ensure that user1@contoso.com can create logins in SQLMI1 that map to Azure AD service principals.

Which three actions should you perform in sequence? To answer, move the appropriate actions from the list of actions to the answer area and arrange them in the correct order.

Actions

Run CREATE LOGIN user1@contoso.com FROM EXTERNAL PROVIDER on the master database.

Run ALTER SERVER ROLE securityadmin ADD MEMBER user1@contoso.com.

Create a managed identity for SQLMI1.

Grant SQLMI1 read access to Azure AD.

Run CREATE USER user1@contoso.com FROM LOGIN user1@contoso.com.

Answer Area



Answer:

Explanation:

Actions

- Run CREATE LOGIN user1@contoso.com FROM EXTERNAL PROVIDER on the master database.
- Run ALTER SERVER ROLE securityadmin ADD MEMBER user1@contoso.com.
- Create a managed identity for SQLMI1.
- Grant SQLMI1 read access to Azure AD.
- Run CREATE USER user1@contoso.com FROM LOGIN user1@contoso.com.

Answer Area

- Grant SQLMI1 read access to Azure AD.
- Run CREATE LOGIN user1@contoso.com FROM EXTERNAL PROVIDER on the master database.
- Run ALTER SERVER ROLE securityadmin ADD MEMBER user1@contoso.com.

Explanation

Text Description automatically generated with medium confidence

Grant SQLMI1 read access to Azure AD.

Run CREATE LOGIN user1@contoso.com FROM EXTERNAL PROVIDER on the master database.

Run ALTER SERVER ROLE securityadmin ADD MEMBER user1@contoso.com.

Reference:

<https://docs.microsoft.com/en-us/azure/azure-sql/managed-instance/aad-security-configure-tutorial>

NEW QUESTION # 265

You have an Azure Data Factory instance named ADF1 and two Azure Synapse Analytics workspaces named WS1 and WS2. ADF1 contains the following pipelines:

P1: Uses a copy activity to copy data from a nonpartitioned table in a dedicated SQL pool of WS1 to an Azure Data Lake Storage

Gen2 account P2: Uses a copy activity to copy data from text-delimited files in an Azure Data Lake Storage Gen2 account to a nonpartitioned table in a dedicated SQL pool of WS2. You need to configure P1 and P2 to maximize parallelism and performance. Which dataset settings should you configure for the copy activity of each pipeline? To answer, select the appropriate options in the answer area.

P1: Microsoft ▼

- Set the Copy method to Bulk insert.
- Set the Copy method to PolyBase.
- Set the Isolation level to Repeatable read.
- Set the Partition option to Dynamic range.

P2: Microsoft ▼

- Set the Copy method to Bulk insert.
- Set the Copy method to PolyBase.
- Set the Isolation level to Repeatable read.
- Set the Partition option to Dynamic range.

Answer:

Explanation:

P1: Microsoft ▼

- Set the Copy method to Bulk insert.
- Set the Copy method to PolyBase.
- Set the Isolation level to Repeatable read.
- Set the Partition option to Dynamic range.

P2: Microsoft ▼

- Set the Copy method to Bulk insert.
- Set the Copy method to PolyBase.
- Set the Isolation level to Repeatable read.
- Set the Partition option to Dynamic range.

Explanation

Graphical user interface, text, chat or text message Description automatically generated

P1: Microsoft ▼

- Set the Copy method to Bulk insert.
- Set the Copy method to PolyBase.
- Set the Isolation level to Repeatable read.
- Set the Partition option to Dynamic range.

P2: Microsoft ▼

- Set the Copy method to Bulk insert.
- Set the Copy method to PolyBase.
- Set the Isolation level to Repeatable read.
- Set the Partition option to Dynamic range.

P1: Set the Partition option to Dynamic Range.

The SQL Server connector in copy activity provides built-in data partitioning to copy data in parallel.

P2: Set the Copy method to PolyBase

Polybase is the most efficient way to move data into Azure Synapse Analytics. Use the staging blob feature to achieve high load speeds from all types of data stores, including Azure Blob storage and Data Lake Store.

(Polybase supports Azure Blob storage and Azure Data Lake Store by default.) Reference:

<https://docs.microsoft.com/en-us/azure/data-factory/connector-azure-sql-data-warehouse>

<https://docs.microsoft.com/en-us/azure/data-factory/load-azure-sql-data-warehouse>

NEW QUESTION # 266

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