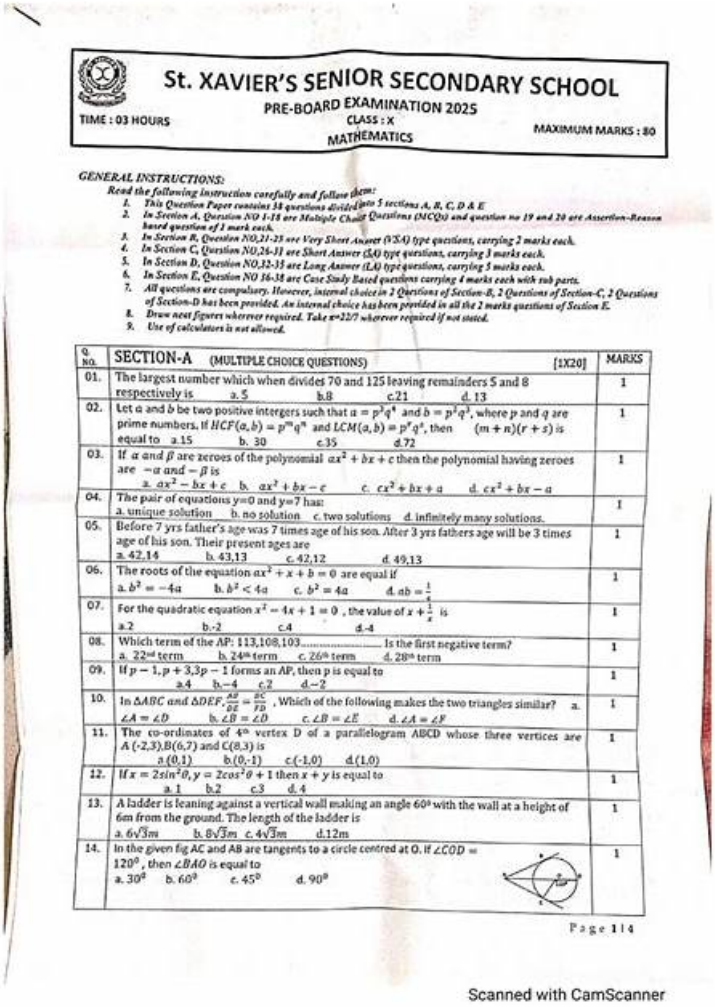
Microsoft DP-203 Exam | Latest DP-203 Dumps Sheet - Ensure you Pass DP-203: Data Engineering on Microsoft Azure Exam



St. XAVIER'S SENIOR SECONDARY SCHOOL
PRE-BOARD EXAMINATION 2025
TIME : 03 HOURS | CLASS : X | MATHEMATICS | MAXIMUM MARKS : 80

GENERAL INSTRUCTIONS:
Read the following instruction carefully and follow them:
1. This Question Paper contains 38 questions divided into 5 sections A, B, C, D & E.
2. In Section A, Question NO 1-18 are Multiple Choice Questions (MCQs) and question no 19 and 20 are Assertion-Reason based question of 1 mark each.
3. In Section B, Question NO.21-25 are Very Short Answer (VSA) type questions, carrying 2 marks each.
4. In Section C, Question NO.26-31 are Short Answer (SA) type questions, carrying 3 marks each.
5. In Section D, Question NO.32-35 are Long Answer (LA) type questions, carrying 5 marks each.
6. In Section E, Question NO 36-38 are Case Study Based questions carrying 4 marks each with sub parts.
7. All questions are compulsory. However, internal choice in 2 Questions of Section-B, 2 Questions of Section-C, 2 Questions of Section-D has been provided. An internal choice has been provided in all the 2 marks questions of Section E.
8. Draw neat figures wherever required. Take $\pi=22/7$ wherever required if not stated.
9. Use of calculators is not allowed.

Q. NO.	SECTION-A (MULTIPLE CHOICE QUESTIONS) [1X20]	MARKS
01.	The largest number which when divides 70 and 125 leaving remainders 5 and 8 respectively is a. 5 b.8 c.21 d. 13	1
02.	Let a and b be two positive intergers such that $a = p^3q^4$ and $b = p^2q^3$, where p and q are prime numbers. If $HCF(a,b) = p^mq^n$ and $LCM(a,b) = p^rq^s$, then $(m+n)(r+s)$ is equal to a.15 b. 30 c.35 d.72	1
03.	If α and β are zeroes of the polynomial ax^2+bx+c then the polynomial having zeroes are $-\alpha$ and $-\beta$ is a. ax^2-bx+c b. ax^2+bx-c c. cx^2+bx+a d. cx^2+bx-a	1
04.	The pair of equations $y=0$ and $y=7$ has: a. unique solution b. no solution c. two solutions d. infinitely many solutions.	1
05.	Before 7 yrs father's age was 7 times age of his son. After 3 yrs fathers age will be 3 times age of his son. Their present ages are a. 42,14 b. 43,13 c. 42,12 d. 49,13	1
06.	The roots of the equation $ax^2+x+b=0$ are equal if a. $b^2=-4a$ b. $b^2<4a$ c. $b^2=4a$ d. $ab=\frac{1}{4}$	1
07.	For the quadratic equation $x^2-4x+1=0$, the value of $x+\frac{1}{x}$ is a.2 b.-2 c.4 d.-4	1
08.	Which term of the AP: 113,108,103..... Is the first negative term? a. 32nd term b. 24th term c. 26th term d. 28th term	1
09.	If $p-1, p+3, 3p-1$ forms an AP, then p is equal to a.4 b.-4 c.2 d.-2	1
10.	In ΔABC and ΔDEF, $\frac{AB}{DE}=\frac{BC}{FD}$, Which of the following makes the two triangles similar? a. $\angle A=\angle D$ b. $\angle B=\angle D$ c. $\angle B=\angle E$ d. $\angle A=\angle F$	1
11.	The co-ordinates of 4th vertex D of a parallelogram ABCD whose three vertices are A (-2,3),B(6,7) and C(8,3) is a.(0,1) b.(0,-1) c.(-1,0) d.(1,0)	1
12.	If $x=2sin^2\theta, y=2cos^2\theta+1$ then $x+y$ is equal to a. 1 b.2 c.3 d. 4	1
13.	A ladder is leaning against a vertical wall making an angle 60^0 with the wall at a height of 6m from the ground. The length of the ladder is a. $6\sqrt{3}m$ b. $8\sqrt{3}m$ c. $4\sqrt{3}m$ d.12m	1
14.	In the given fig AC and AB are tangents to a circle centred at O. If $\angle COD = 120^0$, then $\angle BAO$ is equal to a. 30^0 b. 60^0 c. 45^0 d. 90^0	1

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The DP-203 certification is particularly valuable for data engineers, data architects, and other professionals who work with data on the Azure platform. This credential can help individuals advance their careers by demonstrating their expertise in this in-demand field. Additionally, the DP-203 Certification can give organizations confidence in the abilities of their data professionals, helping to improve the quality of data engineering projects and initiatives.

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Microsoft Data Engineering on Microsoft Azure Sample Questions (Q31-Q36):

NEW QUESTION # 31
You have an Azure Databricks resource.
You need to log actions that relate to changes in compute for the Databricks resource.
Which Databricks services should you log?

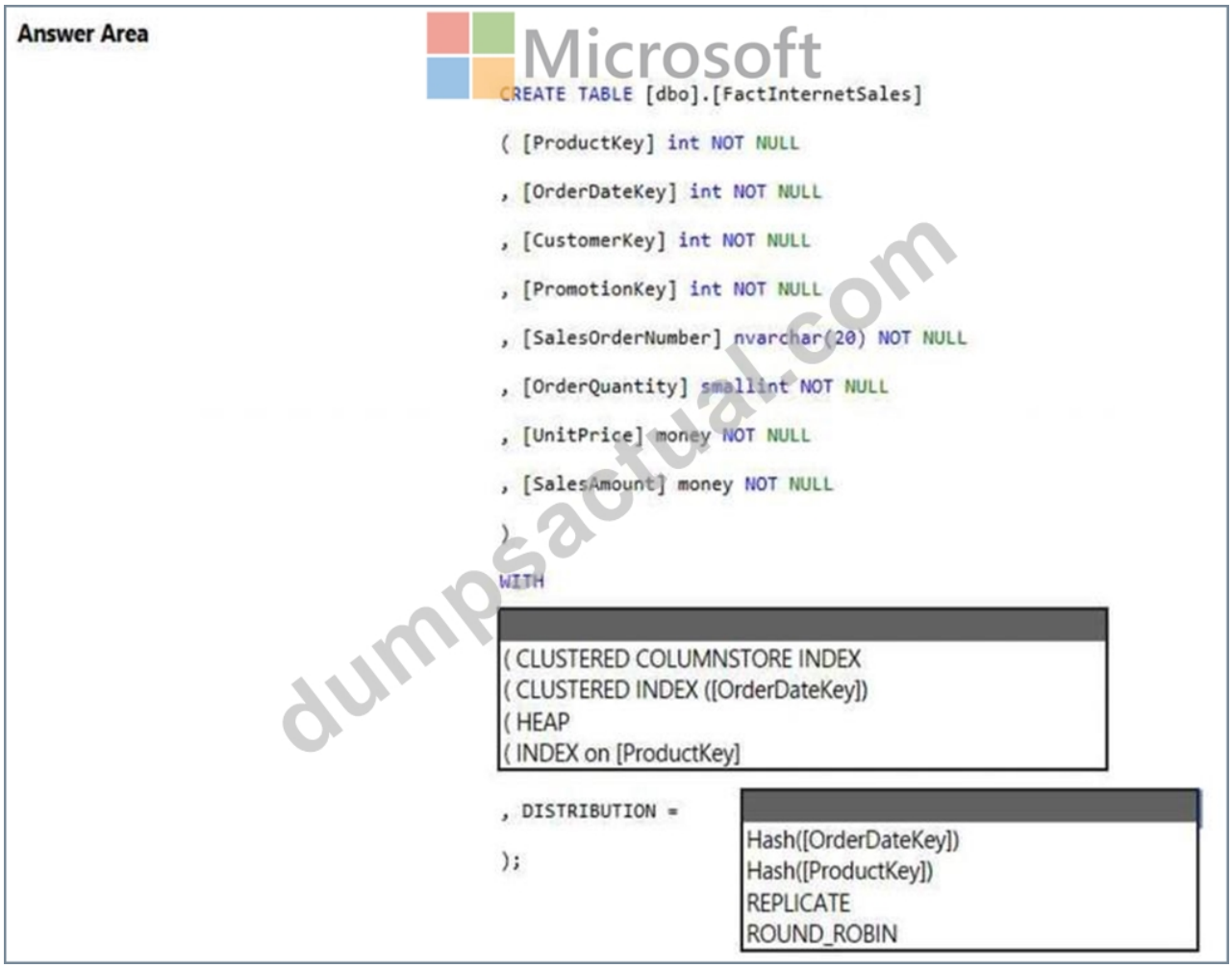
- A. clusters
- B. workspace
- C. SSH
- D. DBFS

Answer: B

Explanation:
E jobs
Explanation:
Cloud Provider Infrastructure Logs. Databricks logging allows security and admin teams to demonstrate conformance to data governance standards within or from a Databricks workspace. Customers, especially in the regulated industries, also need records on activities like: - User access control to cloud data storage - Cloud Identity and Access Management roles - User access to cloud network and compute Azure Databricks offers three distinct workloads on several VM Instances tailored for your data analytics workflow-the Jobs Compute and Jobs Light Compute workloads make it easy for data engineers to build and execute jobs, and the All-Purpose Compute workload makes it easy for data scientists to explore, visualize, manipulate, and share data and insights interactively.

NEW QUESTION # 32
You have an Azure Synapse Analytics dedicated SQL pool.
You need to create a table named FactInternetSales that will be a large fact table in a dimensional model. FactInternetSales will contain 100 million rows and two columns named SalesAmount and OrderQuantity. Queries executed on FactInternetSales will aggregate the values in SalesAmount and OrderQuantity from the last year for a specific product. The solution must minimize the data size and query execution time.
How should you complete the code? To answer, select the appropriate options in the answer area.
NOTE: Each correct selection is worth one point.

Answer Area



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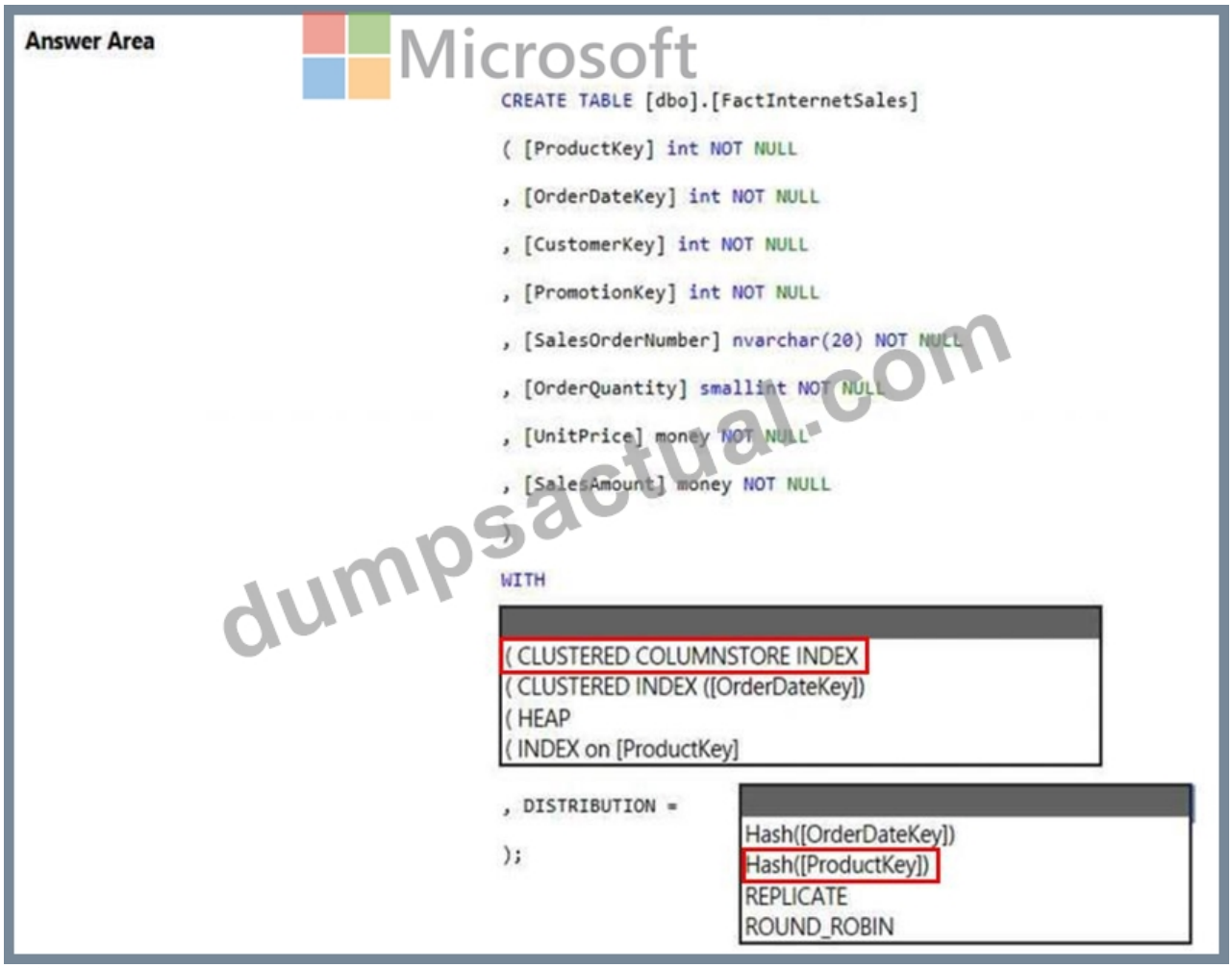
Answer:

Explanation:



Reference:
https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-tables-overview
https://docs.microsoft.com/en-us/azure/synapse-analytics/sql-data-warehouse/sql-data-warehouse-tables-distribute

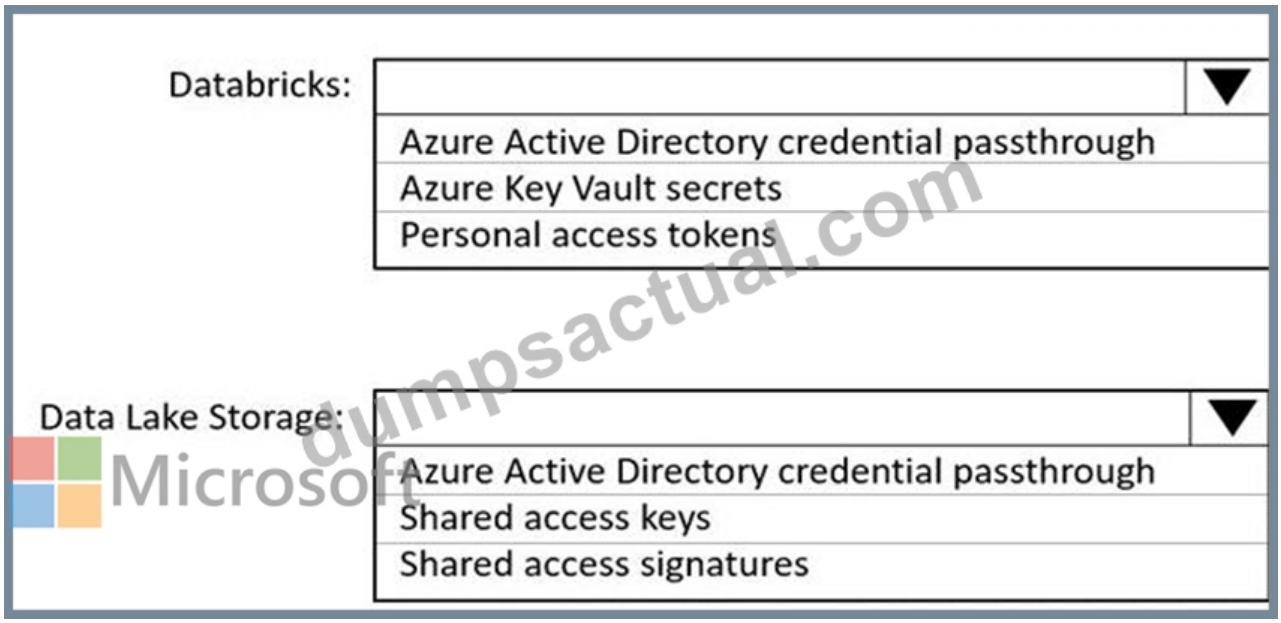
NEW QUESTION # 33

You use Azure Data Lake Storage Gen2 to store data that data scientists and data engineers will query by using Azure Databricks interactive notebooks. Users will have access only to the Data Lake Storage folders that relate to the projects on which they work.

You need to recommend which authentication methods to use for Databricks and Data Lake Storage to provide the users with the appropriate access. The solution must minimize administrative effort and development effort.

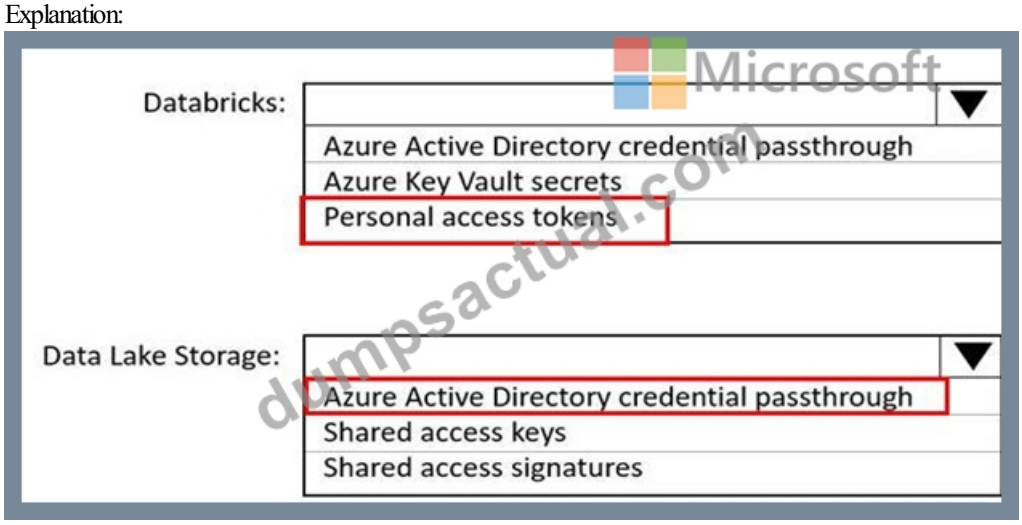
Which authentication method should you recommend for each Azure service? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.



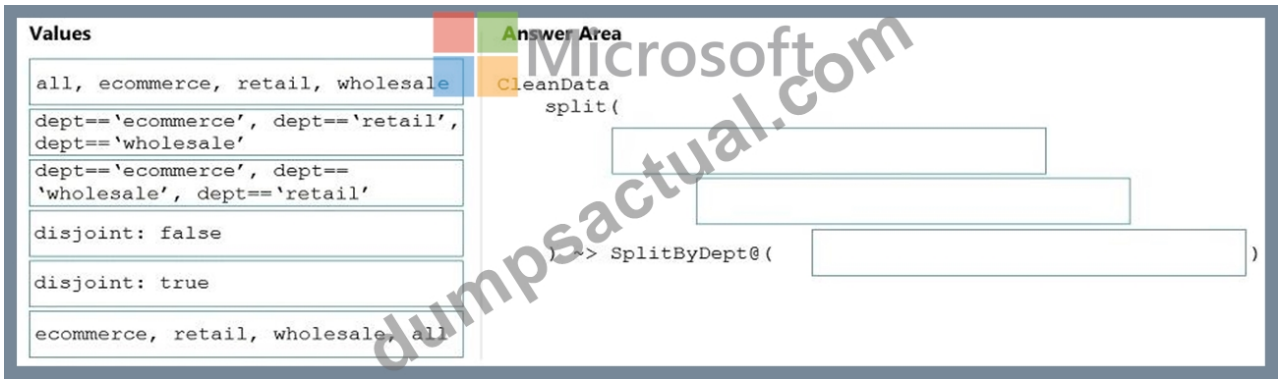
Answer:

Explanation:



Reference:
https://docs.microsoft.com/en-us/azure/databricks/data/data-sources/azure/adls-gen2/azure-datalake-gen2-sas-access
https://docs.microsoft.com/en-us/azure/databricks/security/credential-passthrough/adls-passthrough

NEW QUESTION # 34
You need to create an Azure Data Factory pipeline to process data for the following three departments at your company: Ecommerce, retail, and wholesale. The solution must ensure that data can also be processed for the entire company.
How should you complete the Data Factory data flow script? To answer, drag the appropriate values to the correct targets. Each value may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to view content.
NOTE: Each correct selection is worth one point.



Answer:

Explanation:

Reference:
https://docs.microsoft.com/en-us/azure/data-factory/data-flow-conditional-split

NEW QUESTION # 35
You have an Azure Storage account that generates 200,000 new files daily. The file names have a format of {YYYY}/{MM}/{DD}/{HH}/{CustomerID}.csv.
You need to design an Azure Data Factory solution that will load new data from the storage account to an Azure Data Lake once hourly. The solution must minimize load times and costs.
How should you configure the solution? To answer, select the appropriate options in the answer are a.
NOTE: Each correct selection is worth one point.

Answer:

Explanation:

Reference:
https://docs.microsoft.com/en-us/stream-analytics-query/tumbling-window-azure-stream-analytics

NEW QUESTION # 36
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