

# DP-700 Actual Test Pdf Exam Pass For Sure | Microsoft Exam Questions DP-700 Vce

2) Déterminer la matrice fondatrice  $(T/R_A)$  de la tige dans le repère  $R_A(G, X, Y, Z)$ .

$$\text{Dessin de la matrice fondatrice } (T/R_A) \text{ de la tige dans le repère } R_A(G, X, Y, Z).$$

$$X = Y = 0 \text{ donc } I_{R_A} = I_{R_A} = I_{R_A} = 0 \text{ et } I_{R_A} = 0$$

$$I_{R_A} = I_{R_A} = \int_{R_A} 2^2 d\Omega = \int_{R_A} 2^2 d\Omega = \frac{m}{2R} \left[ \frac{2^2}{3} \right]_{R_A}^{R_A} = \frac{m \cdot 2^2}{3}$$

et on :

$$(T/R_A) = \begin{bmatrix} \frac{m^2}{3} & 1 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & I_{R_A} \end{bmatrix} \quad \boxed{\text{point}}$$

3) Établir l'expression de l'énergie cinétique  $E_c(T/R_A)$  de la tige par rapport au repère  $R_A$  appliquant la relation de Koiter (correspondance entre grandeurs).

D'énergie cinétique de Koiter correspondant à l'énergie cinétique de la tige :

$$E_c(T/R_A) = \frac{1}{2} m \left[ \overline{V}_c(T/R_A) \right]^2 + E_c(T/R_A) \quad \boxed{\text{point}}$$

avec :

$$E_c(T/R_A) = \frac{1}{2} \overline{G}(T/R_A) \dot{u}_c \cdot \overline{G}(T/R_A) \dot{u}_c^T \quad \boxed{\text{point}}$$

soit :

$$E_c(T/R_A) = \frac{1}{2} \left( 0 \quad 0 \quad \frac{m^2}{3} \right) \begin{bmatrix} 0 & 0 & 0 \\ 0 & 1 & 0 \\ 0 & 0 & I_{R_A} \end{bmatrix} \quad \boxed{\text{point}}$$

D'où on obtient :

$$E_c(T/R_A) = \frac{1}{2} m R^2 \left[ \dot{\theta}^2 + \dot{\theta}^2 + 2 \dot{\theta} \cos(\varphi - \theta) \right] = \frac{1}{2} m R^2 \quad \boxed{\text{point}}$$

$$E_c(T/R_A) = \frac{1}{2} m R^2 \left[ \dot{\varphi}^2 + \dot{\theta}^2 + 2 \dot{\theta} \cos(\varphi - \theta) \right] = \frac{1}{2} m R^2 \quad \boxed{\text{point}}$$

D'où on obtient :

$$E_c(T/R_A) = \frac{1}{2} m R^2 \left[ \dot{\varphi}^2 + \dot{\theta}^2 + 2 \dot{\theta} \cos(\varphi - \theta) \right] = \frac{1}{2} m R^2 \quad \boxed{\text{point}}$$

4) Donner les équations de réduction au point A des forces cinétiques  $\mathbf{F}_A$  et calcul des forces extérieures  $\mathbf{F}_{ext}$ .

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5) On considère dans un plan vertical une tige mince et homogène notée T, mouvement pur rotatif de vitesse constante  $\dot{\theta}$  dans le repère de rotation qui centre de masse C en contact avec un mur, et de rayon R, connue la figure en page 4. La tige a une masse m et longueur AB = 2R. On sait que le mouvement de l'extrémité A se fait sans frottement.

Soit : On exprimera toutes les grandeurs vectorielles dans la base orthonormée directe  $\{ \vec{I}, \vec{J}, \vec{K} \}$  du repère cartésien  $R_A(0, x, y, z)$  respectif aux axes.

Le vecteur vitesse instantanée de la tige par rapport au repère  $R_A$  ainsi que la force de liaison au point A sont donnés par :

$$\overline{V}(T/R_A) = \overline{R}(A) = \overline{R}(A) \dot{\theta} \quad \text{et} \quad \overline{F}(T/R_A) = \overline{R}(A) \vec{F}_A$$

On détermine l'expression du vecteur position  $\overline{OG}$  du centre de masse G de la tige en fonction de R,  $\dot{\theta}$  et  $\theta$ . Décrire alors le vecteur vitesse instantanée  $\overline{V}(G/R_A)$  ainsi que le cent de tour modalité.

$$\overline{OG} = \overline{OA} + \overline{AG} = \overline{R}(\theta \vec{I} + \cos \theta \vec{J} + \sin \theta \vec{K}) + \overline{R}(\sin \theta \vec{I} + \cos \theta \vec{K})$$

$$\text{Soit :} \quad \overline{OG} = \overline{R}(\sin \theta \vec{I} + \sin \theta \vec{J} + \overline{R}(\cos \theta + \sin \theta) \vec{K}) \quad \boxed{\text{point}}$$

D'où :

$$\overline{V}(G/R_A) = \overline{R}(\dot{\theta} \cos \theta + \dot{\theta} \cos \theta) \vec{I} + (\dot{\theta} \sin \theta + \dot{\theta} \sin \theta) \vec{K} \quad \boxed{\text{point}}$$

et par ailleurs :

$$|\overline{V}(G/R_A)|^2 = \overline{R}^2 (\dot{\theta}^2 + \dot{\theta}^2 + 2 \dot{\theta} (\cos \theta + \sin \theta)) \quad \boxed{\text{point}}$$

on trouve :

$$|\overline{V}(G/R_A)|^2 = \overline{R}^2 (\dot{\theta}^2 + \dot{\theta}^2 + 2 \dot{\theta} \cos(\theta - \varphi)) \quad \boxed{\text{point}}$$

Corrigé de l'exercice proposé par les professeurs H. LARHAB, A. HABIBI et A. LARHAB

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## Microsoft DP-700 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>Implement and manage an analytics solution: This section of the exam measures the skills of Microsoft Data Analysts regarding configuring various workspace settings in Microsoft Fabric. It focuses on setting up Microsoft Fabric workspaces, including Spark and domain workspace configurations, as well as implementing lifecycle management and version control. One skill to be measured is creating deployment pipelines for analytics solutions.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>Monitor and optimize an analytics solution: This section of the exam measures the skills of Data Analysts in monitoring various components of analytics solutions in Microsoft Fabric. It focuses on tracking data ingestion, transformation processes, and semantic model refreshes while configuring alerts for error resolution. One skill to be measured is identifying performance bottlenecks in analytics workflows.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>Ingest and transform data: This section of the exam measures the skills of Data Engineers that cover designing and implementing data loading patterns. It emphasizes preparing data for loading into dimensional models, handling batch and streaming data ingestion, and transforming data using various methods. A skill to be measured is applying appropriate transformation techniques to ensure data quality.</li></ul>

## Microsoft Implementing Data Engineering Solutions Using Microsoft Fabric Sample Questions (Q49-Q54):

### NEW QUESTION # 49

You are developing a data pipeline named Pipeline1.

You need to add a Copy data activity that will copy data from a Snowflake data source to a Fabric warehouse.

What should you configure?

- A. Fault tolerance
- B. Degree of copy parallelism
- C. Enable logging
- D. Enable staging**

### Answer: D

Explanation:

When using the Copy data activity in a data pipeline to move data from Snowflake to a Fabric warehouse, the process often involves intermediate staging to handle data efficiently, especially for large datasets or cross-cloud data transfers.

Staging involves temporarily storing data in an intermediate location (e.g., Blob storage or Azure Data Lake) before loading it into the target destination.

For cross-cloud data transfers (e.g., from Snowflake to Fabric), enabling staging ensures data is processed and stored temporarily in an efficient format for transfer.

Staging is especially useful when dealing with large datasets, ensuring the process is optimized and avoids memory limitations.

### NEW QUESTION # 50

You have a Fabric workspace that contains a warehouse named Warehouse1. Warehouse1 contains a table named Customer. Customer contains the following data.

You have an internal Microsoft Entra user named User1 that has an email address of user1@contoso.com

You need to provide User1 with access to the Customer table. The solution must prevent User1 from accessing the CreditCard column.

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

NOTE: Each correct selection is worth one point.

### Answer:

Explanation:

Explanation:

### NEW QUESTION # 51

You have a Fabric warehouse named DW1 that contains four staging tables named ProductCategory, ProductSubcategory, Product, and SalesOrder. ProductCategory, ProductSubcategory, and Product are used often in analytical queries.

You need to implement a star schema for DW1. The solution must minimize development effort.

Which design approach should you use? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

**Answer:**

Explanation:

### NEW QUESTION # 52

You have a Fabric workspace named Workspace1. Your company acquires GitHub licenses.

You need to configure source control for Workspace1 to use GitHub. The solution must follow the principle of least privilege. Which permissions do you require to ensure that you can commit code to GitHub?

- A. **Contents (Read and write) only**
- B. Actions (Read and write) only
- C. Contents (Read) and Commit statuses (Read and write)
- D. Actions (Read and write) and Contents (Read and write)

**Answer: A**

### NEW QUESTION # 53

Your company has a sales department that uses two Fabric workspaces named Workspace1 and Workspace2.

The company decides to implement a domain strategy to organize the workspaces.

You need to ensure that a user can perform the following tasks:

Create a new domain for the sales department.

Create two subdomains: one for the east region and one for the west region.

Assign Workspace1 to the east region subdomain.

Assign Workspace2 to the west region subdomain.

The solution must follow the principle of least privilege.

Which role should you assign to the user?

- A. domain contributor
- **B. domain admin**
- C. workspace Admin
- D. Fabric admin

**Answer: B**

Explanation:

To implement a domain strategy and manage subdomains within Fabric, the domain admin role is the appropriate role for the user. A domain admin has the permissions necessary to:

Create a new domain (for the sales department).

Create subdomains (for the east and west regions).

Assign workspaces (such as Workspace1 and Workspace2) to the appropriate subdomains.

The domain admin role allows for managing the structure and organization of workspaces in the context of domains and subdomains while maintaining the principle of least privilege by limiting the user's access to managing the domain structure specifically.

### NEW QUESTION # 54

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