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NVIDIA NCP-OUUSD

**NVIDIA-Certified Professional: OpenUSD Development
(NCP-OUUSD)**



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Question: 1

What is an asset in OpenUSD?

- A. A single 3D model file
- B. A named, versioned, and structured container of resources
- C. A rendering engine
- D. A texture library

Answer: A

Explanation:

In OpenUSD, an asset is not just a model but a structured container that can include layers, geometry, materials, and more.

Question: 2

Which principle ensures asset structures are easy to read and understand?

- A. Performance
- B. Modularity
- C. Legibility
- D. Navigability

Answer: C

Explanation:

Legibility means names and hierarchies should be intuitive and clear for users.

Question: 3

Which principle focuses on reusability and iterative improvement?

- A. Navigability
- B. Modularity
- C. Simplicity
- D. Sharability

Answer: B

Explanation:

Modularity allows assets to be reused, improved, and maintained independently.

Question: 4

Which metadata defines the default entry point in an asset?

- A. rootPrim
- B. defaultPrim
- C. entryPrim
- D. primaryPrim

Answer: B

Explanation:

The defaultPrim metadata tells OpenUSD which prim should be used as the main entry point.

Question: 5

Why is encapsulation important in asset structures?

- A. It compresses file size
- B. It ensures all relevant prims are included under the entry point
- C. It removes redundant prims
- D. It encrypts materials

Answer: B

Explanation:

Encapsulation guarantees that referencing an entry point brings in all necessary geometry, materials, and relationships.

Question: 6

Which principle ensures assets load and run efficiently?

- A. Performance
- B. Navigability
- C. Legibility
- D. Modularity

Answer: A

Explanation:

Performance means optimizing read/write speeds and keeping prim counts manageable.

Question: 7

What is the best prim type for organizing hierarchies without adding transform semantics?

- A. Xform
- B. Scope
- C. Material
- D. Mesh

Answer: B

Explanation:

Scope prims provide logical grouping without introducing transformations like Xforms.

Question: 8

What does the `NamespaceEditor.ReparentPrim()` function do?

- A. Deletes a prim
- B. Moves a prim under a new parent prim
- C. Renames a prim
- D. Creates a new layer

Answer: B

Explanation:

`ReparentPrim` moves an existing prim under a new parent, updating relationships automatically.

Question: 9

Which file format is optimized for I/O performance in OpenUSD?

- A. .usda
- B. .usdc

Answer: B

Explanation:

(.usdc) is binary and optimized for efficient read/write operations.

Question: 10

What naming convention might indicate a public prim?

- A. lower_case
- B. UPPERCASE
- C. Capitalized names
- D. Names with underscores

Answer: C

Explanation:

Capitalized prim names often indicate public-facing elements, while underscores can signal internal use.

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