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**Exam** : **I10-003**

**Title** : XML Master Professional  
Database Administrator

**Vendors** : XML Master

**Version** : DEMO

NO.1 Assume that you wish to improve the response time when executing the following [XQuery] on a certain XMLDB.

Which one of the answers below is not an appropriate point to be checked?

Assume that the XMLDB does not have any automated optimization functions related to the answer choices.

```
[XQuery]
<result>{
  for $book in fn:doc("books.xml")//book
  for $seminar in fn:doc("event.xml")//seminar
  where $book/author/@ID = $seminar/speaker/@ID
  return
    <record>
      {$book/author}
      {$book/title}
      {$seminar/subject}
    </record>
}</result>
```

- A. Revise the [XQuery] expression
- B. Revise the configuration of the relevant XML data index
- C. Investigate the disk capacity size used by the XMLDB
- D. Investigate the influence of any exclusive access controls performed by other processes when executing the [XQuery]

Answer: C

NO.2 Assume that perfect fidelity of a complete XML document is required in a certain XML document.

Select the most suitable method for providing perfect XML document fidelity when storing an XML document using the following methods.

Here "perfect XML document fidelity" means that an XML document retrieved from the XMLDB is exactly the same as the original XML document prior to XMLDB insertion, completely identical when compared using binary, including empty element notations, whitespace locations, etc.

- A. Store the XML document as a model based on XPath 1.0
- B. Store the XML document as a model based on XML Information Set (Infoset)
- C. Store the XML document as a BLOB (Binary Large Object) type with no character encoding method defined
- D. Store the XML document as an NCLOB (National Character Large Object) type for which UTF-8 has been defined as the character encoding method

Answer: C

NO.3 Four separate operating requirements and four individual storage management methods for XML

document data are listed below.

Considering the general characteristics, which individual management method ([Management Methods]) combines most optimally with which requirement ([Operating Requirements])?

[Operating Requirements]

1. Retrieve a portion of the XML document according to values in the XML document
2. Identify the XML document by unique values, and retrieve the entire XML document
3. Perform aggregation and statistical calculations of the values in the XML document
4. Continuously check the data types for the values in the XML document, and search through data using queries on the XML document

[Management Methods]

- A) XML document file (text file) management via file system
- B) Management via RDB (relational database), and program for storing data from an XML document into the RDB (assume the RDB does not maintain an XML document tree structure)
- C) Management via XMLDB, using XML Schema definitions
- D) Management via XMLDB, without using XML Schema definitions

A. A-4, B-2, C-1, D-3

B. A-1, B-2, C-4, D-3

C. A-2, B-1, C-4, D-3

Answer: A

NO.4 Select which of the following is not a correct description regarding dynamic context defined by XQuery 1.0.

- A. Dynamic context is information that is available at the time the expression is evaluated
- B. The dynamic context consists of all the components of the static context (default element/type namespace, etc.), and additional components (context item, etc.)
- C. The value of context size (one of the dynamic context components) can be obtained using the "fn:last()" function
- D. Query prolog cannot be used to set the value for any of the dynamic context components

Answer: D

NO.5 Assume that a certain XMLDB has an HTTP listener function, and can receive XML documents via

HTTP protocol.

In this case, the XMLDB follows [Procedure] below to identify the character encoding method of the XML document received.

[Procedure]

(1) If the XML document character encoding method can be determined from the HTTP request header, process the XML document character encoding according to the HTTP request header information.

(2) If the XML document character encoding method cannot be determined from the HTTP request

header, identify the character encoding from the XML document itself

Select which is correct as the identified character encoding resulting from the procedure above when the XMLDB receives a well-formed XML document according to [Conditions] below. Assume that the XMLDB follows RFC3023.

[Conditions]

The actual character encoding method for XML document is "UTF-16;" however, no XML declaration is specified.

The HTTP request header defines "Content-Type: text/xml." however, the charset parameter is not defined in this Content-Type header field.

A. US-ASCII

B. UTF-8

C. UTF-16

D. The character encoding method is determined from system locale, and is therefore undetermined

Answer: A