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Q&A

Exam : **000-141**

Title : XML and related technologies

Version : DEMO

1. Refer to the exhibit to answer the question.

Buyer entities of the marketplace can search and discover sellers and interact with them. The discovery

and interaction processes are very dynamic in nature. Which of the following can MOST logically be part

of the application's architecture?

YourCo is a marketplace that connects buyers and
sellers online for various trading communities. The
marketplace operates as follows:

1. Using YourCo marketplace, companies can quickly
search and locate products and services online.
2. Once a company finds a product or service suitable for
their need, the company can solicit pricing information
(quotations) from various sellers.
3. Multiple sellers of a same kind product or service can
bid to sell a product.
4. Once the company finalizes the desired product(s),
price and seller, it notifies the seller and the seller sends
an invoice to the customer.
5. The marketplace interacts with banks on behalf of the
sellers and buyers to execute the financial transactions of
an exchange.

XML will be used extensively for data exchange between
heterogeneous entities.

A. Validation of XML data

B. XSL matching for the search and discovery

C. XML Query for the search and discovery

D. UDDI for the search and discovery

E. SOAP for communication between various entities

Answer: ADE

2. An application needs to be able to modify the XML document that it is processing, without creating a

new instance of the document. Which is the BEST technology to use?

A. XSLT

B. SAX

C. DOM

D. DTD

E. Infoset

Answer: C

3. A group of companies that currently processes purchase orders (POs) using XML has set up a B2B trading community in order to exchange the POs. Which of the following XML technologies would provide the MOST benefits?

A. Use published DTDs to standardize the PO format.

B. Use XML Query to retrieve POs from another company's database.

C. Use XML Infoset to standardize field names between companies.

D. Use XSLT to transform POs to/from internal PO formats.

Answer: AD

4. Which of the following MUST be present in every SOAP request?

A. SOAP Envelope, SOAP Header, SOAP Body

B. SOAP Header, SOAP Body

C. SOAP Envelope, SOAP Body

D. SOAP Envelope, SOAP Header

Answer: C

5. When is it BEST to use validation in an XML application?

A. The application is being developed but not during production, when performance is more important

B. The source of the XML data is untrusted

C. Validating stylesheets are used

D. High performance is an important architectural constraint

Answer: B

6. Refer to the exhibit to answer the question.

Which of the following is MOST likely to be required in the design?

The Web site for a financial services company will include both web-based trading (e-trades) and the financial research reports to help investors make their decisions. As part of the application architecture, note the following:

* As the data interchange format between the web-based application and the company's legacy trading systems.
* As the EFT (Electronic Funds Transfer) data interchange format with the customer's bank, from which funds will be withdrawn to settle the trade.
* As the source format for the financial research reports, which will be searchable and displayable from the web browser.
* The set of banks is unknown at the time the application is being built.

It is very important to management that the Web site looks professional, that customers have pleasant interaction, and that the site has performance characteristics. Additionally, management wants to ensure that financial reports can still be produced on paper with high-quality typesetting and four-color printing.

A. XML from the bank must be validated and transformed into a format expected by the legacy system.

B. XML from the legacy system must be transformed into a format expected by the bank's application.

C. The DTD for financial reports must be consistent with element names used by the bank.

D. The DTD for EFT transactions must be consistent with element names used by the browser.

Answer: A

7. Refer to the exhibit to answer the question.

It has been decided that rather than writing an XML Schema for the project, a DTD will be used.   Which

of the following are problems that an XML developer may run into when trying to implement this system?

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XML will be used extensively for data exchange between heterogeneous entities.

A. Additional effort will be required to process date elements as required by banking officials.

B. A unique id attribute will need to be created in order to identify each and every seller/buyer.

C. The use of namespaces will be kept to a minimum.

D. Enumerations values to ensure buyer and sellers will use the same currency as payments and accepting payments.

Answer: AC

8. XML is going to be used in a B2B application to exchange human-resources data between multiple organizations.   Each organization keeps its data in different forms, and produces different reports. Which of the following issues would present the greatest challenges for the XML project?

A. Each corporation has its own non-XML record structure for this data.

B. Each corporation wants to display the records in a different layout in its intranet applications.

C. Some corporations will be sending a lot more data than others.

D. The corporations are not using the same operating systems or middleware platforms.

Answer: A

9. Which of the following statements regarding XPath is TRUE?

A. XPath is new enough that the W3C has not yet adopted it as a "recommendation".

B. Using XPath, a developer can address portions of a DTD in a forward or backward direction.

C. XPath's functionality is extended by XPointer.

D. XPath is implemented with an object-based language.

E. XPath uses XSLT, XSL FO, and other emerging technologies.

Answer: C

10. Refer to the exhibit to answer the question.

The goals of the design are to produce a stable and efficient e-commerce site. Which of the following technologies would MOST LIKELY improve the design or performance of the XML-based e-commerce application?

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XML will be used extensively for data exchange between heterogeneous entities.

A. XML Query

B. XML Schema

C. XSL Format Objects

D. SAX

E. XSLT

Answer: BDE

11. An XML development team is faced with the task of repurposing an XML data stream to target both HTML web pages and hand-held cellular phones. What consideration is MOST likely to influence the team's design?

A. The amount and types of formatting supported by the cellular device.

B. The font families available on target web browsers.

C. The current CSS formatting model.

D. The ability to properly transform XML objects into HTML objects.

Answer: A

12. Which of the following statements reflects the BEST approach to rendering XML in a diverse range of clients?

A. Format the XML during the XSL Transformation phase on the server using Format Objects based on xsl:template rules.

B. Format the XML during the XSL Transformation phase on the server using xsl:output in conjunction with an xsl:choose and various xsl:when statements.

C. Format the XML DOM in the middle tier XML application and deliver the objects to the requesting client.

D. Use a combination of XSL Transformation processing and application processing to provide the necessary formatting to render the XML for specific uses.

Answer: D

13. Which of the following XSL FO elements represent block level elements?

A. fo:block

B. fo:flow

C. fo:table

D. fo:table-and-caption

E. fo:page-sequence

Answer: ACD

14. Consider the following scenario:

A company needs to display employee contact information in its intranet. The information is available in XML Format from an XML-aware employee database. It is required that the top of document should contain an index of employee names, so that clicking on an employee name will display the employee's complete contact information (including the employee's name). Which of the following is the BEST

approach to meet this requirement?

A. Create a master stylesheet that includes two stylesheets, one to generate the index, and another to generate the complete information.

B. Create a stylesheet with two templates in different modes, and use them in the mode attribute of <xsl:apply-templates>.

C. Create a stylesheet with one template, and selectively use <xsl:copy> with <fo:index> to generate the index information.

D. Create a stylesheet with one template, and use <xsl:indexinfo> to generate the index information.

Answer: B

15. How should a developer write an XSL stylesheet that generates the XML prolog and DTD declaration as follows?

<?xml version="1.0" ?>

<!DOCTYPE doc SYSTEM "http://www.ibm.com/test.dtd"> ...

A. By writing a template to match the root element of the source XML document<xsl:template match="/">
<?xml version="1.0" ?><!DOCTYPE doc SYSTEM "http://www.ibm.com/test.dtd">...</xsl:template>

B. By using <xsl:output method="xml" doctype-system="http://www.ibm.com/test.dtd" /> as a child of the root element of the XSL stylesheet.

C. By using <xsl:stylesheet method="xml" doctype-system="http://www.ibm.com/test.dtd" />   as the root element of the XSL stylesheet.

D. The XSL stylesheet automatically copies the prolog and the DTD declaration from the source XML.

Answer: B

16. CSS and XSL can be BEST used together to:

A. develop advanced transformations between XML DTDs.

B. extend the capabilities of the HTML formatting model with CSS constructs.

C. transform XML data on the server into HTML documents that link with CSS style sheets.

D. allow XSL to directly process HTML documents.

Answer: C

17. When would extending the XSL processor be MOST appropriate?

A. To access system services that are not available in XPath or XSL

B. To avoid the "no side effects" rule in XSLT, e.g., to update a counter

C. To allow direct interaction with the xsl:template actions by the application

D. To perform complex calculations that are cumbersome to express in XSLT or that would seriously degrade performance

Answer: AD

18. Refer to the exhibit to answer the question.

Management later decides that the names of all financial research reports that mention a new element, "stock", should be displayed in the Web browser. Implementing this functionality is MOST likely to require:

The Web site for a financial services company will include both web-based trading (e-trades) and the financial research reports to help investors make their decisions. As part of the application architecture, note the following:

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A. an additional XML transformation between bank and legacy system data.

B. a change to the XML rendering process for financial research reports.

C. an enhancement to the DTD or XML Schema for EFT transactions.

D. an enhancement to the DTD or XML Schema for financial research reports.

Answer: BD

19. What is meant by the term "namespace coercion" in the context of XML Schema inclusions?

A. The targetNamespace of the included schema must be coerced into the including schema's targetNamespace by manipulating the XML Schema DOM.

B. If no targetNamespace is declared for the schema that is included, the targetNamespace is coerced into the including schema's namespace.

C. The two schemas will collide in the targetNamespace.

D. The including schema's targetNamespace will be coerced into a default "empty" targetNamespace, which both schemas will populate.

E. The parser will be forced to discontinue parsing of the included schema, unless coerced by a setTargetNamespace() function from within the XML application.

Answer: B

20. An application uses a large XML document that contains information about 10,000 customers.   The application is performing poorly, with slow responses to requests for customers with a particular hobby. Which combination of the following could an XML developer use to facilitate logic for alleviating the problem?

A. Create XML documents for each of the hobbies.

B. Store <customer> IDs in a "hobbies" database table.

C. Use IDs in each of the <hobby> elements.

D. Use IDREFs in each of the <customer> elements to reference the associated hobbies.

Answer: CD