

SEM B-IMPORTANT QUESTIONS

Q1. Which component of an XML document is used to provide additional information about element?

Ans: - Attribute.

Q2. Which component of an XML document provides a shortcut to chunk of data?

Ans: -- Entity.

Q3. What does the "+" symbol in the content model in a DTD indicate?

Ans: - an element must occur at least once and there can be multiple occurrences.

Q4. Consider the following algorithm:

1. Locate the position of the node to be deleted. Mark it as currentNode and its parent as parent
 2. If parent is the header node:
 - a. Set the left thread field of parent as zero.
 - b. Make the left child field of the header one as a thread pointing to itself.
 - c. Go to Step 5.
 3. IF Current Node is the left child of parent:
 - a. Set the left thread field of parent as zero.
 - b. Make the left child field of parent as a thread pointing to the inorder predecessor of current Node.
 - d. Go to step 5.
 4. IF current Node is the right child of parent:
 - a. Set the right thread field of parent as zero.
 - b. Make the right child field of parent as a thread pointing to the in order successor of current Node.
 5. Release the Memory for current Node.
- What does the preceding algorithm do?

Ans: -The preceding algorithm will delete a leaf node from a threaded binary tree.

Q.4 Which of the following should you use to format data based on conditions?

Ans: - the"xsl:if" element along with the "test" attribute

Q5. **Statement A** : A reference to an internal DTD file is included in the XML document.

Statement B: Internal DTD files can be used across multiple documents.

Ans: Both statement are false.

Q6. **Statement A**: the "import" element is an element supported by XSLT in which one XSLT style sheet can be reused by another XSLT style sheet.

Statement B: The "import" element is a top-level element that must appear immediately after the "stylesheet" element

Ans:- Both statement are correct.

Q7. **Statement A**: content, dt:types, name, and order are the ElementType element.

Statement B: dt:type, name, model, and required are the attributes of the AttributeType element.

Ans: Both Statements are False.

Q8. Consider the following XML document:

```
<?xml version="1.0"?>
<LESSONS>
<LESSON1 SUMMERY="In the lesson "Learning XML Besics",you learned about the basic components of an XML document.">
<OBJECTIVE> Identify the need forXML</OBJECTIVE>
<OBJECTIVE>Identify the components of an XML document </OBJECTIVE>
</LESSON1>
</LESSONS>
```

When the above document is opened in IE 5.0, it displays an error message. What could be the cause of the error?

Ans:-The SUMMARY attribute of the LESSON1 element has a value containing double quotes in it.

Q9. Consider the following extract from an XML document , which contains the details about a product and the order details for the product:

```
<PRODUCT PRODID="P001" NAME="CD">
<PRICE>$10</PRICE>
</PRODUCT>
<ORDER ORDNO="100">
<QTY>200</QTY>
</ORDER>
```

When the above document is opened in IE 5.0, it gives an error message. What could be the cause of the error?

Ans:- The XML document contains more than one root element.

Q10. You need to declare elements and attributes in a DTD for storing employee leave details. Leave details include employee id, start date, number of days, and leave category. You need to ensure that leave category can contain only CL, PL, or other as its valid values. If the value for category is not specified, CL should be taken as the default value. Which of the following statements best suits the requirements specified above?

Ans:- `<!ELEMENT LEAVE (EMPLOYEEID, STARTDATE, NODAYS)>`
`<!ATLIST LEAVE CATEGORY (CL|PL|Other)"CL">`

Q11. The data about orders is stored in an XML document. Each order is represented using the Order element.

The Order element has an attribute named ProductID. You want to extract all Order elements that have a ProductID value of 1. Which of the following code fragments should you use to do so?

Ans:- `<xsl:template match="Order[@ProductID='1']">`

Q12. Which one of the following statements can be used to process the element TICKETID, having the TICKET element as its ancestor?

Ans:- `<xsl:for-each match="TICKET//TICKETID">`

Q13. Which of the following expressions retrieves the PRODUCT element, which is a child of the SUMMARY ELEMENT AND HAS THE product id attribute with the value P001.

Ans:- `SUMMARY/PRODUCT[@PRODUCTID='P001']`

Q14. Which of the following sorting techniques sorts the list efficiently, if the list to be sorted is nearly Sorted?

Ans:- Insertion Sorts.

Q15. Which of the following sort in techniques will you use in the list to be sorted is small in size and is nearly sorted?

Ans:- Insertion Sorts.

Q16. Which of the following is defined as a graph that has an unordered pair vertices representing an edge?

Ans:- Undirected Graph.

Q17. **Statement A:** A binary tree is a specific type of tree in which each node can have a maximum of two children.

Statement B: A binary tree is said to be strictly binary if every node, except for the leaf nodes have non-empty left and right children.

Ans:- Both Statement A and Statement B are true.

Q18. The data 12,34,29,11 is entered in a stack in the specified order. what will be the order of the data when it is removed from the stack?

Ans:- 11,29,34,12.

Q19. Which of the following is a rule for creation a well-formed XML document?

Ans:- Every empty element must be closed using a forward slash(/) before the closing angular bracket.

Q20. What does the "?" symbol in the content model of an element declaration in a DTD indicate?

Ans:- The element is optional. If used, the element can appear only once within the parent element in an XML.

Q21. What will the following XPath expression return? Substring before("2001/07/09","/")

Ans:- 2001

Q22. Which of the following statements correctly states the difference between HTML and XML?

ANS:- HTML focuses on presentation of data, while XML focuses only on data and not on how the data is to be.

Q23. **Statement A:** XML enables you to store data in a structured format by allowing you to create customized tags.

Statement B: XML documents can be easily interpreted by target systems.

Ans:- Both statements are correct.

Q24. which of the following content models is invalid?

Ans:- `<ELEMENT STUDENT(NAME,ADDRESS)(NAME,DATE_OF_JOINING)>`

Q25. **Statement A:** The value of element instructs the XSLT processor to process the information for each instance of the specified pattern.

Statement B: The sort element has select, order, case-order, and data-type as its attributes.

Ans:- Statement A is incorrect and statement B is correct.

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