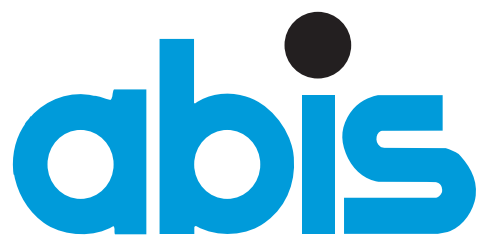


Self-test XML concepts

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INTRODUCTION

With this self-test you can see for yourself if you have enough background on XML concepts to follow the [XML fundamentals course](#). The test is based on topics treated in the [XML concepts](#) course.

In this test, 20 questions are asked. For most questions, there is only one answer possible. If multiple answers are possible, it will be clearly indicated. A question is answered correctly, if all correct answers are selected.

You can find the right answers and guidelines for the evaluation at the end of this document.

QUESTIONS

1. What requirements have to be fulfilled for a well-formed XML document?
 - (a) The document must be hierarchically structured.
 - (b) The document must be saved in UTF-8
 - (c) The document must be saved in UTF-8 or UTF-16
 - (d) The document must be created with an XML-editor.

2. Why do they call XML 'Extensible'?
 - (a) XML is an extension of HTML
 - (b) The names of the XML tags can freely be chosen.
 - (c) XML documents can always be changed.
 - (d) XML can be supplemented with other standards such as XPath, XQuery and XLink.

3. What is an XML parser used for? *[2 answers]*
 - [a] to validate an XML-document
 - [b] to compile XML
 - [c] to provide an interface between an application and an XML file
 - [d] to check the XML content for spelling errors

4. What does 'Markup Language' mean in XML?
 - (a) that the text is not readable with a standard text editor
 - (b) that tags are saved in Unicode
 - (c) that text is mixed with extra information about the text
 - (d) that tags may contain other tags ('nesting')

5. What is a Schema or a DTD used for? *[2 answers]*
 - [a] to transform an XML document to a general format like PDF
 - [b] to define the structure of XML documents
 - [c] to allow validation of an XML document
 - [d] to check the well-formedness of an XML document

6. What is the difference between a DTD and a Schema?
- (a) A Schema is XML and a DTD is not.
 - (b) A DTD is used in Browsers and a Schema is not.
 - (c) The Schema syntax is to be found at the W3C website and the syntax of a DTD is not.
 - (d) A Schema is more compact than a DTD.
7. What is true?
- (a) XML will replace HTML.
 - (b) XML documents can be transformed into HTML.
 - (c) XML is a compact format.
 - (d) XML will make relational databases superfluous.
8. Which standards are W3C standards? *[2 answers]*
- [a] SOAP
 - [b] SVG
 - [c] XML-Lite
 - [d] JPEG
9. Which is a true statement about web services?
- (a) Web services are companies maintaining the web.
 - (b) To consume a web service, you need a web browser.
 - (c) Web services are services available via internet or intranet.
 - (d) Web services are designed for high-volume transactions.
10. Which of the following are common APIs for XML parsers?
- (a) Xerces, XParse
 - (b) SAX, DOM
 - (c) XALAN, XForms
 - (d) XSL-FO, SVG

11. What is a namespace?
- (a) a collection of names that can be used for elements and attributes
 - (b) a URL where you can look for the names of elements and attributes
 - (c) a unique key for an XML-document, necessary for validation of elements and attributes
 - (d) a certified Schema with elements and attributes
12. Why are we using namespaces?
- (a) to make XML documents unique
 - (b) to register XML documents on the Web
 - (c) to compare attribute values and elements
 - (d) to make tags unique
13. What is true about XPath?
- (a) Xpath is a standard for transformation of XML documents.
 - (b) XPath shows the relations between several XML documents.
 - (c) XPath is intensively used in XQuery and XSLT.
 - (d) With XPath we specify the standard path of an XML file.
14. Which conversion can NOT be done with XSLT and/or XSL-FO?
- (a) XSL to XML
 - (b) XML to PDF
 - (c) PDF to XML
 - (d) XML to HTML
15. Which is a true statement about the W3C?
- (a) W3C specifies XML standards.
 - (b) W3C implements XML standards.
 - (c) An XML Schema is only valid if it is registered with the W3C.
 - (d) HTML, TCP/IP and Ethernet are W3C standards.

16. Which XML-standard is in itself NOT XML?
- (a) XHTML
 - (b) XQuery
 - (c) XQueryX
 - (d) XML Schema
17. Which of the following can NOT be used as an XML database?
- (a) XMLSpy
 - (b) SQL Server
 - (c) Oracle
 - (d) Tamino
18. What is correct? [2 answers]
- [a] COBOL prefers the DOM API for XML parsing
 - [b] COBOL programs can generate XML
 - [c] XML can generate COBOL programs
19. With which XML standard do we describe simple or complex relationships between resources in XML documents?
- (a) XConnect
 - (b) HyperLinkX
 - (c) XLink
 - (d) XPath
20. Which organization specifies ebXML for use in electronic business, and stimulates the development of XML standards for vertical markets?
- (a) XML-B2B
 - (b) WSDL
 - (c) IETF
 - (d) OASIS

EVALUATION.

Here are the correct answers to all questions:

1. a
2. b
3. a c
4. c
5. b c
6. a
7. b
8. a b
9. c
10. b
11. a
12. d
13. c
14. c
15. a
16. b
17. a
18. b c
19. c
20. d

Give yourself 1 point for each correctly answered question (for multiple answer questions, this means that **all** correct answers must be marked)..

If you answered less than 10 questions correctly, please follow the [XML concepts](#) course. If you answered between 10 and 15 questions correctly, you know already some concepts, but you will still learn a lot in this course.

If you answered more than 15 questions correctly, than this course is probably not useful for you any more. You are ready to start the [XML fundamentals course](#).