

# Software Engineering and Web Technology

**Chapter 1** Markup Languages

3.251

P  
A  
R  
T  
C



## CHAPTER I MARKUP LANGUAGES

### HINTS/SOLUTIONS

#### Practice Problems 1

4. Tag that is considered to be illegal in XML is `<.document >`.

Hence, the correct option is (A).

10. In HTML, there's no problem if you omit the quotes around attribute values.

However, XML processors would refuse such an element because omitting the quotation marks around the

attribute value, is a violation of well-formedness, so option *b* is not correct and *c*, *d* has the back slash within quotes so they are also not correct.

Hence, the correct option is (A).

14. HTTP stands for HyperText Transfer Protocol. This protocol is used between client and server, where client is usually a browser. Text remains same across the network in the form of ASCII.

Hence, the correct option is (D).

#### Practice Problems 2

2. W3C stands for World Wide Web consortium the body that sets the standards for the web.

Hence, the correct option is (B).

5.  $H_6$  is the smallest heading tag and  $H_1$  is the largest heading tag.

Hence, the correct option is (C).

13. We can not have “standalone” attributes in XML, such as the BORDER attribute in HTML tables, which need not be assigned a value. In XML declaration standalone is set to “Yes” if the document does not refer to any external entities otherwise, use “no”.

Hence, the correct option is (A).

#### Previous Years' Questions

1. The table displayed for given code is shown below:

ab	cd	
	ef	gh
ik		

Rowspan = 2, occupies two rows. Colspan = 2 occupies two columns.

The number of rows in each column are `<2, 3, 2>`. The number of columns in each row are `<2, 3, 2>`.

Hence, the correct option is (C).

2. Web objects from different sites can be placed in same page using `<object>` tag. To refresh the page use 'meta' tag. For redirecting also we can use meta tag with URL attribute (to redirect). Time will not be displayed using HTML.

Hence, the correct option is (D).

3. Service oriented computing → publish-find- bind  
Heterogeneous communicating systems → Interoperability  
Information representation → XML  
Process description → BPMN

Hence, the correct option is (C).

4. With the help of DNS, browser resolve host name to IP address. Then a connection is established with web server and web page is requested. Web server sends the requested web page.

Hence, the correct option is (A).

5. Only single TCP connection to the server *S* is required. But *Q* need to send at least 2 HTTP requests to *S* (one to load web page and 2nd to load image).

Hence, the correct option is (B).

## TEST

### HINTS/SOLUTIONS

3. H1 is the largest heading tag and H6 is the smallest heading tag.  
Hence, the correct option is (B).
5. Entities can be internal or external. External entities derive their content from an external source hence standalone may not be yes.  
Hence, the correct option is (D).
7. Parameter entities can only occur in the document type declaration. A parameter entity is identified by placing “%” in front of its name in the declaration.  
Hence, the correct option is (B).
8. XML documents whose syntax has been checked successfully are called valid documents. In particular, an XML document is considered valid if there is a document type definition (DTD) or XML schema associated with it and if the document complies with the DTD or schema.  
Hence, the correct option is (A).
20. A server is a process that is waiting to be contacted by a client process so that the server can be something for client.  
Hence, the correct option is (D).
22. When the amount of time to service a request depends on the request itself (so that the server doesn't know ahead of time how much effort it takes to handle each request), the server typically handles it in a concurrent fashion. These are called concurrent servers.  
Hence, the correct option is (B).
28. XML documents must have a root tag.  
Hence, the correct option is (D).
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