CHAPTER 12: XML (eXTENSIBLE MARKUP LANGUAGE)

Introduction to XML: XML (eXtensible markup Language) is a markup language like HTML. But XML is different from HTML in the sense that HTML describe how to display and format the data text and images in the browser whereas XML is used to describe the data. It is text based markup language that allows storing data in structured format. A system that allows new markup languages is known as Meta language. A Meta Language is a language that is used to define other language.

XML VS HTML

HTML	XML
HTML document formats and displays web pages data.	XML documents carry data along with their description.
HTML tags are predefined.	XML tags are not predefined. You can create and define new tags as per your needs.
HTML tags may not have closing tag.	XML tags must have a closing tag.
HTML tags are not case-sensitive.	XML tags are case – sensitive.
HTML documents are directly viewable in a browser.	XML documents can be viewed only if proper style sheet file is also available along with XML file.

Features of XML:
1. XML is Free.
2. XML can be used to store data. Application can be written to store and retrieve information.
3. XML is extensible. XML allows the user to create his own tags and documents structure.
4. XML is W3C recommendation.
5. XML is platform independent.

Cascading Style Sheet (CSS): Cascading is a collection of formatting rules that control the appearance of content (Font, color, size, alignment & appearance etc) in a web page. A stylesheet is made up of style rules that tell a browser how to present a document. There are two types of CSS.

     1. Internal Cascading Sheet   2. External Cascading Sheet.

Advantages of XML:
1. It is easy as HTML.
2. It is fully compatible with application like Java.
3. It is portable language. It can be used on network with multiple platforms.
4. It is platform independent.
5. It is extensible language. You can create your own tags and document structure.

Short Answer Type question (2 Marks)

1. What is HTML?
2. What is XML? What do you mean by extensible in XML?
3. What is XML? Write 02 differences between XML and HTML?
4. Write down the difference between HTML and XML.
5. Write down the four features of XML?
6. What is role of style sheet in XML?
7. What is CSS? Also write types of CSS.