Due: Thu. Jan. 27, 2011

Question 1 (20%) Show the tree representation of the XML document shown below.

Question 2 (20%) Write a DTD for the XML document shown on next page.

Question 3 Write an XPath query for each of the following:
  (10%) Q1. List the publisher of “Data on the Web”.
  (10%) Q2. List titles of books published by “Addison-Wesley”.
  (10%) Q4. List publisher of books written by “Peter Buneman”.
  (10%) Q5. List titles of books that have more than one author.
  (10%) Q6. List titles of books that have an editor.

<bib>
  <book year="1994">
    <title>TCP/IP Illustrated</title>
    <author><last>Stevens</last><first>W.</first></author>
    <publisher>Addison-Wesley</publisher>
    <price>65.95</price>
  </book>

  <book year="1992">
    <title>Advanced Programming in the Unix environment</title>
    <author><last>Stevens</last><first>W.</first></author>
    <publisher>Addison-Wesley</publisher>
    <price>65.95</price>
  </book>

  <book year="2000">
    <title>Data on the Web</title>
    <author><last>Abiteboul</last><first>Serge</first></author>
    <author><last>Buneman</last><first>Peter</first></author>
    <author><last>Suciu</last><first>Dan</first></author>
    <publisher>Morgan Kaufmann Publishers</publisher>
    <price>39.95</price>
  </book>

  <book year="1999">
    <title>The Economics of Technology and Content for Digital TV</title>
    <editor>
      <last>Gerbarg</last><first>Darcy</first>
      <affiliation>CITI</affiliation>
    </editor>
    <publisher>Kluwer Academic Publishers</publisher>
    <price>129.95</price>
  </book>
</bib>