

INDIAN STATISTICAL INSTITUTE BANGALORE CENTRE
Documentation Research and Training Centre

M. S. (Library and Information Science) 2022-24
Second Year, Semester IV (Mid-Term)

Paper 17: Web Based Information Systems and Services
Date: 21st Feb 2024

Duration: 1.5 hours

Full marks: 40

Answer any 4 questions. All questions carry equal marks.

1. What is HTML and what are the major improvements in HTML5?
2. Describe major features of CSS, including pseudo classes and elements.
3. Write HTML code for displaying the following content and layout in a browser:

Library Portal					
Quick Links <ul style="list-style-type: none">• Home• Catalogue• Policies• Contact <p>[width: 25%]</p>	Library News <table border="1"><tbody><tr><td>Jan 15, 2024</td><td>Announcement 2</td></tr><tr><td>Jan 1, 2024</td><td>Announcement 1</td></tr></tbody></table>	Jan 15, 2024	Announcement 2	Jan 1, 2024	Announcement 1
Jan 15, 2024	Announcement 2				
Jan 1, 2024	Announcement 1				
Contact Feedback					

4. Explain the advantages of XML Schema over DTD in validating XML documents.
5. How well-formed and valid XML documents differ? Also write a DTD for which the following XML document will be valid:

```
<?xml version="1.0"?>
<catalogue>
  <record>
    <title>Sapiens</title>
    <subtitle>A Brief History of Humankind</subtitle>
    <author>Harari, Yuval Noah</author>
    <publisher>
      <name>Vintage</name>
      <year>2015</year>
    </publisher>
    <isbn>978-0099590088</isbn>
    <keyword lang="en">Evolution</keyword>
  </record>
</record>
</catalogue>
```