## INDIAN STATISTICAL INSTITUTE BANGALORE CENTRE Documentation Research and Training Centre

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

Paper 17: Web Based Information Systems and Services

Date: 22<sup>nd</sup> Apr 2024

**Duration: 3 hours** 

Full marks: 50

- 1. Describe major features of CSS3, including rules of specificity and pseudo elements.
- 2. Write HTML code for displaying the following content:

Answer any 5 questions. All questions carry equal marks.

		Library Portal		
Quick Links	New Arrivals			
<ul><li>Home</li><li>Catalogue</li></ul>	Sl. No.	Title	Author	Year
<ul><li>Policies</li><li>Contact</li></ul>	1	Sample Title 1	Sample Author 1	2010
	2	Sample Title 2	Sample Author 2	2012
[width: 25%]	3	Sample Title 3	Sample Author 3	2014

- 3. Explain the difference between DTD and XML Schema.
- 4. Explain major types of SQL joins with examples.
- 5. Discuss the types and usage of database abstraction.
- 6. Write a DTD for which the following XML document will be valid:

```
<newArrivals>
 <record id="001">
      <title> The Algorithm Design Manual</title>
      <author>Steven S. Skiena</author>
      <publisher>
             <name>Springer</name>
             <year>2020</year>
      </publisher>
 </record>
 <record id="002">
      <title>The Unix Programming Environment</title>
      <author>Brian W. Kernighan</author>
      <author>Rob Pike</author>
      <keyword>Computer Science</keyword>
      <keyword lang="en">Programming</keyword>
 </record>
</newArrivals>
```