

M. S. (Library and Information Science) 2018-20
Second Year, Semester III (Final)

Paper 16: Web Technology and Web based Information Services
Date: 13th Nov 2019

Duration: 3 hours

Full marks: 50

Answer any 5 questions. All questions carry equal marks.

1. Write HTML code with appropriate CSS styles for the following web page:

Library Portal				
Quick Links <ul style="list-style-type: none">• Home• Catalogue• Policies• Contact [width: 25%]	New Arrivals			
	Sl. No.	Title	Author	Year
	1	Sample Title 1	Sample Author 1	2010
	2	Sample Title 2	Sample Author 2	2012
3	Sample Title 3	Sample Author 3	2014	
Contact Feedback				

2. Describe highlights of CSS3, including rules of specificity.
3. Explain the difference between DTD and XML Schema.
4. Write a DTD for which the following XML document will be valid:

```
<recentTitles>
  <record id="rec1">
    <title>The Five Laws of Library Science </title>
    <author>Ranganathan, S. R.</author>
    <publisher>
      <name>Ess Ess Publications</name>
      <year>2006</year>
    </publisher>
    <keyword>Library science</keyword>
    <keyword lang="en">Classification</keyword>
  </record>
  <record id="rec2">
    <title>Classified catalogue code</title>
    <author>Ranganathan, S. R.</author>
    <author>Neelameghan, A.</author>
  </record>
</recentTitles>
```

5. Explain major types of SQL joins with examples.
6. Discuss the usage of database abstraction in web applications.