

M. S. (Library and Information Science) 2019-21
Second Year, Semester III (Final)

Paper 16: Web Technology and Web based Information Services

Date: 18th Dec 2020

Duration: 3 hours

Full marks: 60

Answer any 5 questions. All questions carry equal marks.

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

Library Portal				
Menu <ul style="list-style-type: none">• Home• Catalogue• Policies• Contact <p><i>[width: 25%]</i></p>	Popular Titles			
	Rank	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 the major features of CSS3, including the rules of specificity.
3. Write a DTD for which the following XML document will be valid:

```
<collection>
  <book lang="en">
    <title>Sapiens: A Brief History of Humankind</title>
    <author>Yuval Noah Harari</author>
    <year>2015</year>
    <publisher>Penguin</publisher>
  </book>
</collection>
```

4. Explain XML Schema in detail with examples and highlight its differences with XML DTD.
5. Explain major SQL joins with examples.
6. Discuss usage of TF-IDF algorithm in relevance ranking.