

INDIAN STATISTICAL INSTITUTE

BANGALORE CENTRE

Documentation Research and Training Centre

M. S. (Library and Information Science) 2020 -22

Second Year, Semester III (Final)

Paper 16: Web Technology and Web-based Information Services

Date: 05th January, 2022

Duration: 3 hours

Max. marks: 100

I. Answer any ten questions. (60 Marks)

1. What is the 'appropriate copy problem', and how does OpenURL linking solves the problem?
2. What are web services, their functions, and their components?
3. Explain different types of SQL joins with suitable examples.
4. What is the CSS box model, and which CSS properties are part of it?
5. What is CGI, and how do a web server and CGI programs communicate?
6. Explain Alias and ScriptAlias Apache directives with an example for each?
7. Explain XML namespace with a suitable example
8. What XSLT, and how does it work?
9. What makes JavaScript unique, and what can be done using JavaScript?
10. What are the differences between CGI programming and server-side programming?
11. Give an example of the standardised content distribution method, how does it work?
12. What is the concept of hosting multiple websites on a single machine called, why is it required, and steps involved in creating it?

II. Answer all the questions (15 Marks)

1. What will be the output from the following code snippet?

```
<script src="file.js">  
    alert(Hello, JavaScript World!);  
</script>
```

2. Write HTML code to apply the following CSS code

```
#para1 {  
    text-align: center;  
    color: red;  
}
```

P.T.O

3. Create a table named 'child.' That establishes a relationship with the 'parent' table using a Foreign key.

```
CREATE TABLE parent (  
    id INT NOT NULL,  
    PRIMARY KEY (id)  
    ) ENGINE=INNODB;
```

4. What do the following regular expressions match?

- a. ^A
- b. A\$
- c. Gr[ae]y
- d. ^\$
- e. [0-9]*

5. What will be the output upon executing the following script?

```
<?php  
function myTest1() {  
    $x = 7; // local scope  
    echo "<p>Variable x inside function is: $x</p>";  
}  
myTest1();  
echo "<p>Variable x outside function is: $x</p>";  
?>
```