

## School of Computer Science and Applications

### Assignment-II

**Programme: MCA**

**Course Code: M23DE0204**

**Semester: II**

**Course Title: Web Application Development Framework**

**Section: B**

**Name of the Faculty: Prof. Nagaraju S**

**Date of Announcement:** 02-09-2025

**Date of Submission:** 08-09-2025

S.NO	Assignment Questions	CO	PO	PSO
1.	Define XML and elaborate on its syntax with an example.	3	2,3	3
2.	Define Document Type Definition (DTD). Write a DTD for an XML document that represents a student with roll_no, name, age and address like street_no, city, state, country.	3	1,3	1,2
3.	Elaborate on the structure and components of XML Schema Definition (XSD), and illustrate with an example.	3	3,4	2,3
4.	What is the Document Object Model (DOM), and how is it used to manipulate XML data programmatically?	3	1,4	3
5.	How can CSS be used to style XML documents? Provide an example of a CSS rule applied to an XML file.	3	1,2	4
6.	What is XSLT, and how does it transform XML documents? Write a simple example of XSLT transforming an XML element <title> into an HTML <h1> element.	3	1,2	1,2,3
7.	What is XPath, and how can it be used to navigate an XML document? Write an XPath expression to select all elements named <book> in an XML file.	3	3,4	2,3
8.	What is XQuery, and how does the FLOWR expression work in querying XML data? Write an example of a FLOWR query retrieving all elements with a specific attribute value.	3	3,4	2,3
9.	List and explain JSON Data Types.	3	1,4	3,5
10.	Define JSON Array. What are the key characteristics of a JSON array?	3	1,2	4,5
11.	Define AngularJS. What are the key features of AngularJS? Explain them.	4	3,4	2,3
12.	What are AngularJS expressions? Explain the syntax of AngularJS Expressions with examples	4	1,4	3,4
13.	Explain the concept of Data Binding in Angular-JS. What are the different types of data binding available in Angular-JS?	4	3,4	2,3
14.	Explain the concepts of modules and controllers in AngularJS with suitable examples.	4	1,4	3,4
15.	Describe React-JS and its role in modern web development.	4	1,2	3,4

**Subject Teacher**

**Head**

**Director**