**DCA8241 Advanced Web Programming**

**Assignment Set-I**

1a. List the main components of HTML and briefly describe their functions.

b. What distinguishes XML from HTML? Explain how XML namespaces help in document organization.

2a. Why is AJAX significant in web development?

b. Describe a real-world example where AJAX improves user experience.

3a. Design an HTML page to display a personal profile.

b. What HTML elements would you include, and why?

**Assignment Set-II**

4a. Identify three new features introduced in HTML5 and discuss their importance.

b. How would you use the <canvas> element to draw shapes, and the <audio> element to embed sound in a webpage?

5. Create an HTML form for event registration that collects details like name, email, and preferences. What HTML5 features can ensure valid user input?

6. Explain the steps required to read XML data in Java and insert it into a relational database using JDBC.

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