

2056  
B.Sc. Data Analytics (FYUP)  
Fourth Semester  
BDAD-403: Web Technologies

Time allowed: 3 Hours

Max. Marks: 45

**NOTE:** Attempt five questions in all, including Question No. 9 (Section-E) which is compulsory and selecting one question from each Section A-D.

x-x-x

**Section - A**

- Q1: (a) Define the terms Internet, Intranet, Extranet and World Wide Web. Explain their differences. 5  
(b) Write an HTML program to create a web page that displays headings, paragraph breaks and different text styles such as bold, italics and underline. 4

- Q2: (a) Write an HTML program to create ordered and unordered lists showing different subjects offered in a course. 5  
(b) Design an HTML table to display student information (Name, Roll No., Marks) using attributes such as border, cell padding and cell spacing. 4

**Section - B**

- Q3: (a) What is the anchor tag in HTML? Illustrate the use of internal and external document references with examples. 5  
(b) Explain the concept of frames in HTML and write a program to create two frames displaying different web pages. 4

- Q4:(a) What is CSS? Differentiate between inline, internal and external CSS with suitable examples. 5  
(b) Write an HTML form that includes text box, password field, radio button, checkbox and submit button. 4

**Section - C**

- Q5: (a) Describe the main features and components of JavaScript including tokens, data types and variables. 5  
(b) Write a JavaScript program to perform client-side form validation for a login form. 4

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- Q6: (a) Explain the use of control structures and arrays in JavaScript with examples. 5  
(b) Describe built-in objects in JavaScript such as String, Math and Date objects. 4

**Section - D**

- Q7: (a) Describe the workspace layout of Dreamweaver and its role in web page development. 5  
(b) Write the steps involved in creating and managing a website using Dreamweaver. 4

- Q8: (a) Describe how images, tables and lists can be inserted in a web page using Dreamweaver. 5  
(b) Explain the concept of Dreamweaver templates and their advantages in web development. 4

**Section - E**

Q9: Answer the following questions briefly:

- (a) Write the general structure of an HTML document. 2  
(b) What is the purpose of the <img> tag in HTML? Mention any two attributes used with it. 3  
(c) What is an event in JavaScript? Give one example. 2  
(d) What is Dreamweaver? State its role in web page design 2

x-x-x