

Indian Institute of Information Technology, Lucknow
Mid Semester Exam

Subject - Web Design & Application Development-I

Subject Code- WDA1202C

Max Marks: 30 , Max Time: 2 Hours

Date: 23-09-2024

Instructions:

1. All questions are compulsory.
2. Each question is labelled with its type (Theory and Code).
3. Bonus Question is of 2 Marks is not mandatory.

PART-A [20 Marks]

Q1. Objective Questions -

[5 Marks]

- i) Which HTML tag is used to define an unordered list?
a) b) c) d) <list>
 - ii) What does REST stand for in RESTful APIs?
a) Remote State Transfer
b) Representational Service Transfer
c) Representational State Transfer d) None of the above
 - iii) What protocol is used to send emails?
a) FTP b) HTTP c) SMTP d) IMAP
 - iv) Port Number Used for HTTPS protocol-
a) 53 b) 80 c) 25 d) 443
 - v) Shortcut Keys used for Emmet Abbreviation to generate HTML page-
a) Ctrl+! b) Shift + ! c) Alt+! d) Ctrl+!
- Q2. Short Answers- [10 Marks]

- i) List five HTML tags that have been deprecated in recent versions of HTML, and provide their modern alternatives. [Theory, 2 Marks]
- ii) Design a HTML Table for Name, Email, Address and 2

contact numbers per name. Utilize colspan and rowspan properties where appropriate to enhance the table layout. [Code, 2 Marks]

iii) Discuss the importance of encryption in client-server communication. Name at least three cryptographic algorithms commonly used and explain their functions. [Theory, 2Marks]

iv) What is the purpose of DNS in web technology? Describe its role in the domain name resolution process and its mention its port number. [Theory, 2Marks]

v) Define REST API. What are its key principles? [Theory, 2Marks]

Q3. Answer the following -

[5 Marks]

- i) Discuss the differences between Web 1.0, Web 2.0, and Web 3.0. Provide examples of each and explain how these developments have influenced modern web technologies. [Theory, 2.5 Marks]
- ii) Describe the steps involved in the process of rendering an HTML web page in a web browser. [Theory, 2.5 Marks]

PART-B [10 Marks]

Q5. Design a HTML form for a job application, including fields for Full Name, Email, Phone Number, Resume upload, Cover Letter, Job Position, Skills, and Terms & Conditions. Include CSS for HTML elements and Hovering effect on Submit button. [Code, 5Marks]

Q6. Create a webpage layout using HTML and CSS that includes a header, navigation menu, main content area, and footer. The layout should adapt to different screen sizes. [Code 5 Marks]

Bonus Question: . [Code, 2 Marks]

Include Responsive behaviour on Webpage created in Q6

■ End of the Paper , All the very best