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Question Paper Code:R5F01

B.E./B.Tech. DEGREE EXAMINATION, NOV 2025

Fifth Semester

Computer Science And Design

R21UCD501 – INTERACTIVE DESIGN

(Regulations R2021)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1. Describe the purpose of a domain name in a web address. CO1-U
2. Summarize the functions of different types of web browsers. CO1-U
3. Develop a JavaScript snippet to dynamically display the current date and time on a webpage. CO2-App
4. Construct a JavaScript function to find the square of a number. CO2-App
5. Explain the concept of event handling with a JavaScript class example. CO1-U
6. Describe the role of JSON in data transmission. CO1-U
7. List out types of SQL joins with a brief purpose. CO1-U
8. Define RESTful API? CO1-U
9. List the common UI/UX design tools used in the industry. CO1-U
10. Mention two principles of good layout and composition in user interfaces. CO1-U

PART – B (5 x 16= 80 Marks)

11. (a) Summarize the Box Model in CSS and explain its components. CO1 - U (16)
Or
(b) Explain the concept of overlays in web design. CO1 - U (16)
12. (a) Explain various components of BOM such as window, navigator, screen, location, and history with examples. CO1 - U (16)
Or
(b) Discuss the concept and use of Regular Expressions in JavaScript. CO1 - U (16)

13. (a) Discuss the role and advantages of JSON and AJAX in web development. CO1 - U (16)
- Or
- (b) Explain how JavaScript supports inheritance. CO1 - U (16)
14. (a) Describe the different types of SQL joins. CO1-U (16)
- Or
- (b) Describe REST principles and how they interact with SQL operations in back-end development. CO1-U (16)
15. (a) Explain how human factors and psychology influence UI/UX design. CO1-U (16)
- Or
- (b) Illustrate the concept of typography in user interface design. CO1-U (16)