

Nepal College of Information Technology

Semester Fall

Level: Bachelor

Program: BE SW

Semester: III

Course: Web Technology

Year: 2022

Time : 3 hrs

FM : 100

PM: 45

✓ Candidates are requested to give their answers as far as practicable in their own words.

✓ The figure in the margin indicates the full marks

Attempt all the question

1. a. What happens if you enter <https://ncit.edu.np> into your browser? Describe the procedures behind the screens. Describe along with its block diagram. What is the impact of the Web in today's world? 8
- b. What is a web application? What are the Best Practices for Good Web Application Architecture? Explain about Architectural issues of the web layer. 7
2. a. Write HTML and CSS code for the given form. 7
- b. How do you create links in HTML? Explain different types of links in HTML 4
- c. Explain Text level formatting and block-level formatting tags also include differences between them. What will happen if you overlap sets of tags. 4
3. a. How CSS can be Used in HTML? Explain 5 different selectors used in CSS. 5
- b. Explain position, display, and float properties with an example. 4
- c. Write HTML and CSS code for the following O/P 6

Registration Form

| | |
|--|--|
| First Name | Last Name |
| <input type="text" value="Johnny"/> | <input type="text" value="Nelson"/> |
| Birth day | Gender |
| <input type="text" value=""/> | <input checked="" type="radio"/> Male <input type="radio"/> Female |
| Email | Phone Number |
| <input type="text" value=""/> | <input type="text" value=""/> |
| Subject | |
| <input type="text" value="Choose option"/> | |
| <input type="button" value="Submit"/> | |

| | | |
|----------------------|-------|----------------|
| NCIT COLLEGE | | |
| Home Gallery Contact | | |
| About Yourself | Image | About Yourself |
| ©Pokhara University | | |

4. a. Why JavaScript is called a loosely and dynamically typed language? Explain the syntactic characteristics of JS 3
- b. How events can be handled in JavaScript? Write a JS code for the following o/p. When the user provides Quantity, it gives the Total. 5
- | Quantity | Price | Total |
|----------|-------|-------|
| | | |
- c. What do you mean by DOM in JavaScript? How do you get elements from documents? Write an example of all methods. Also mention difference between querySelector and querySelectorAll. 7
5. a. Create a registration form with **Name, Email, Phone, Password, and Confirm Password**. Also validates it with JavaScript. (All input should be fulfilled else ***required** message will display, the name must be of 8 characters, email should be in the proper format, the phone must be of 10 digits, password includes the only number and must be of 8 digits, and starting and ending with 0, Confirm password and Password must match) 7
- b. What are sessions and cookies? Mention any 5 differences between them with an example. An example must include all the functions of the session and cookies. Also writes PHP session code that helps detect no. of website visits. 8
6. a. Explain \$_SERVER, \$_POST, \$_GET, \$_REQUEST with example. 3
- b. \$list=[2,6,10,8,4,7] \$lang=["PHP","JS","C","CPP"] create the given array and From the above array solve the following question 4
- i. Check if value 20 exists in \$list array
 - ii. Access 3rd element from \$list array.
 - iii. Delete an individual element 8 from \$list array.
 - iv. Combine \$list and \$lang array
- c. Develop a simple web page that asks for the user's login ID and Password if you provide the correct credentials it will ask you to put your(name, email, phone, Nationality, and Marks) and store it in the database using a server-side script and also displays them in tabular form. Assume Database name: NCIT table name: Student. 8
7. Write short notes on (**Any Two**): 2×5
- a. Math function in PHP (any 4)
 - b. Mouse Events
 - c. DOM tree
 - d. Keypress events
 - e. String function in PHP
 - f. Array methods in JS