

Nepal College of Information Technology
Online Open-book Hybrid Assessment Examination Spring 2020

Level: Bachelor
Program: BE-SE (Morning)
Subject: Web Technology

Full Marks: 100
Pass Marks: 45
Time: 3hrs

Attempt all the questions

A newly established company in Kathmandu wants to develop a secure, fast and user-friendly website and the attendance application system for its staffs. Assume you are hired as a web developer/programmer to fulfill the requirements of this company, now answer Q.No. (1), (2) and (3) on the basis of the above assumptions:

1. (a) Which language and tools you will use for the development and why? Also, how can you put the website online? (7)
(b) The company wants to convert its website from **http** to **https** by seeing other websites but is unknown about its advantages. By explaining about its advantages, how would you convert its website from http to https? (5)
(c) You have two options to design the homepage, one using the frames and the other using html/xhtml +css. Which option do you prefer and why? (5)
2. (a) Now, for the attendance system you need to first register staffs with their compulsory details including full name, mobile, password and confirm password, email, Date of Birth, departments (Management, Web Development, Quality Assurance), appointment date, Description and status (Active or Inactive). Create a page with registration form to get the inputs from the user. (7)
(b) For the input fields of a form in 2(a), you are asked to show the background color as Blue and text color as White for the Submit button and include asterisk (*) in red color along with label to represent all fields as compulsory. Which level of style sheets will you use to implement this styles? Why? How would you achieve this? (5)
(c) Write JavaScript Code to validate the form in 2(a) for empty fields, match two passwords and validate the correct pattern of email, mobile number (to support 10 digits starting from 9 only). (6)
(d) Write PHP- MySQL code to create a database named 'attendance' with a table 'staffs'. The table must contain the fields to insert the inputs of the form in 2(a) with one of the fields as primary key. Also, write the PHP-MySQL code to insert the data input from the form. (5)

3. (a) After the registration, you are asked to develop a Login Form as shown below:

Log in

Username / email

Password

☐ Remember me

Write HTML code for the above form. (4)

(b) Write PHP-MySQL code to verify the supplied data in above form by checking the inserted records during registration in (2). Display message “Attendance Successful!” if the user successfully logs in else display error message as “Invalid Credentials!” (5)

(c) If the user checks to **Remember me** option then the user should be remembered on browser for 1 week. How would you achieve this? Write with the suitable PHP code. (4)

4. (a) Do you think DOM is still useful in JavaScript? Why? Give any 3 important examples to illustrate your answer. (7)

(b) Do you think drag and drop feature can be implemented using PHP only? Why? Illustrate with suitable example how drag and drop feature can be implemented. (8)

(c) One of your friend tells that cookies and sessions in PHP are the same thing. Is he correct? Explain your answer with suitable examples and scenario of usage of both. (5)

5. (a) What is the use of file handling in PHP? Does file handling in PHP makes files stored in server secure? Explain you views with suitable illustrations. (7)

(b) What is the actual use of box model in CSS? Explain your answer with suitable example of box model and the features discussed in box model. (5)

(c) Although during the implementation of all form elements: checkboxes, radio buttons and dropdowns, they have multiple options for choices. So, what are the actual usage of those elements that particularly distinguish each other? (5)

7. Write short notes (any two)

5×2

- (a) Essential differences between objects and primitives in JavaScript
- (b) Practical use Stacking Elements in JavaScript
- (c) Arrays in PHP