

2018**M.Sc.****4th Semester Examination****COMPUTER SCIENCE****PAPER—COS-403****Subject Code—26****(Practical)****Full Marks : 25****Time : 2 Hours**

The figures in the right-hand margin indicate full marks.

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

Illustrate the answers wherever necessary.

WEB TECHNOLOGY LAB.**Moudule-1**

Answer any one questions in Lottery basis. 1×15

1. Consider the following data :

<i>Department</i>	<i>Course</i>
Dept. of Arts	Bengali
	English

(Turn Over)

	History Political Science Sociology
Dept. of Commerce	Accountancy Business Administration
Dept. of Science	Biology Chemistry Computer Science Mathematics Physics

Create a webpage with two dropdown lists. On selecting a particular department in the first dropdown list, the corresponding course names should automatically be Populated in the second dropdown list.

2. Create a webpage to demonstrate the use of cookie.
3. Create a webpage to send an email, after validating the sender authentication.
4. Create a simple login form the login credentials are already stored in a database table.
5. Create a sample registration form where the user can choose a specific user name. The login information and the user details should be stored in two separate database tables.

6. Create a webpage to store an image. Create another webpage where the images you stored can be retrieved.
7. Create a webpage which takes a string as input in a textbox and provides the abbreviation of the string on button click event.
8. Create a webpage to show the registration process of any job site.
9. Create a webpage to show your resume using appropriate formatting elements.
10. Create a webpage named as 'Table.html' to display class time table. Create another webpage named as 'video.html' to display video files and link the page with 'Table.html'.
11. Create a webpage to explain the use of various predefined function in a string and math object in java script.
12. Create a webpage that contains a selection box with a list of 5 countries in the lists. When the user selects the country its capital should be printed next to the list, and add CSS to customize the properties of the font of the Capital.
13. Design a user validation web application, where user submits the login name and password. These are checked against the data already available in database and if the data matches a successful login page is returned. Otherwise failure message is to be shown to user.

14. Design a web application that takes a name as 7/p and on submit it shows a hellos <name> page where <name> if taken from the request, and provides a logout button along with the login time. On clicking the logout button it should show a logout page with the duration of usages.

15. Design the following

A user is first served a login page which takes username and password. After submitting the details the server checks these values against the data from a database and takes the following decisions.

If name and password matches, than welcome page is to be shown. If name matches and password doesn't, then serves password mismatch page.

If name not found, then redirect to registration page.

16. Use ADO.NET Technology for inserting, updating and deleting records from database.

[Practical Note Book : 5 Marks

Viva-Voce : 5 Marks]

Module-2

Answer any *one* question on Lottery Basis. 1×20

1. Write a PROLOG program to calculate the GCD of two numbers.
2. Write a PROLOG program to calculate the factorial of N.
3. Write a PROLOG program to check whether a number is prime or not.
4. Write a PROLOG program to calculate the num of n natural number.
5. Write a PROLOG program to concatenate three lists into one list.
6. Write a PROLOG program to show all sublists of a list.
7. Write a PROLOG program to add one element at the end of the list.
8. Write a PROLOG program to check whether a list is palindome or not.

9. Write a PROLOG program to count the number of elements in a list.
10. Write a PROLOG program to find out Nth fibonacci number.
11. Write a PROLOG program to show grandparent and uncle relation.
12. Write a PROLOG program to show authority and brother relation.
13. Write a PROLOG program to show nephew and sister relation.
14. Write a PROLOG program to show great grand parent and sister relation.

[Viva-Voce : 05 Marks]
