SAVITIBAI PHULE UNIVERSITY
M.Sc(Computer Science) Semester-II
Practical Examination (From 2023-2024)
SUBJECT: CS-561-MJP: Lab Course on CS-560-MJ (Full Stack Development-I)

Time: 3 Hours   **Max. Marks: 35**

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Q.1) Create an HTML form for Login and write a JavaScript to validate email ID and Password using Regular Expression.

[10 Marks]

Q.2) Create an HTML form that contain the Student Registration details and write a JavaScript to validate Student first and last name as it should not contain other than alphabets and age should be between 18 to 50.

[**20 Marks]**

Q.3) Viva   **[5 Marks]**

------------------------- Slip 1 --------------------

Time: 3 Hours   **Max. Marks: 35**

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Q.1) Create a Node.js file that will convert the output "Full Stack!" into reverse string.

[10 Marks]

Q.2) Using node js create a web page to read two file names from user and append contents of first file into second file.

[**20 Marks**]

Q.3) Viva   **[5 Marks]**

Time: 3 Hours   **Max. Marks: 35**

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Q.1) Using node js create a User Login System.

[10 Marks]

Q.2) Create a node.js file that Select all records from the "Teacher" table, and find the Teachers whose salary is greater than 20,000**.**

[**20 Marks]**

Q.3) Viva   **[5 Marks]**

------------------------- Slip 3 --------------------

Time: 3 Hours   **Max. Marks: 35**

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Q.1) Using node js create an eLearning System.

[10 Marks]

Q.2) Create an HTML form using AngularJS that contain the Student Registration details and validate Student first and last name as it should not contain other than alphabets and age should be between 18 to 50 and display greeting message depending on current time using ng-show (e.g. Good Morning, Good Afternoon, etc.)(Use AJAX).

[**20 Marks**]

Q.3) Viva   **[5 Marks]**

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Q.1) Create a Node.js file that writes an HTML form, with an upload field.

[10 Marks]

Q.2) Using angular js create a SPA to carry out validation for a username entered in a textbox. If the textbox is blank, alert "Enter username". If the number of characters is less than three, alert " Username is too short". If value entered is appropriate the print "Valid username" and password should be minimum 8 characters.

[**20 Marks]**

Q.3) Viva   **[5 Marks]**

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Q.1) Write angular JS by using ng-click directive to display an alert message after clicking the element.

[10 Marks]

Q.2) Create a Node.js file that opens the requested file and returns the content to the client. If anything goes wrong, throw a 404 error.

[**20 Marks]**

Q.3) Viva   **[5 Marks]**

Time: 3 Hours   **Max. Marks: 35**

_____

Q.1) Create angular JS Application that show the current Date and Time of the System (Use Interval Service)

[**10 Marks**]

Q.2) Create a node js file named main.js for event-driven application. There should be a main loop that listens for events, and then triggers a callback function when one of those events is detected.

[**20 Marks**]

Q.3) Viva   **[5 Marks]**

------------------------- Slip 7 --------------------

Time: 3 Hours   **Max. Marks: 35**

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Q.1) Create a Simple Web Server using node js

[10 Marks]

Q.2) Using angular js display the 10 student details in Table format (using ng-repeat directive use Array to store data)

[**20 Marks**]

Q.3) Viva   **[5 Marks]**

------------------------- Slip 8 --------------------

Time: 3 Hours   **Max. Marks: 35**

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Q.1) Create a Node.js file that writes an HTML form, with a concatenate two string.

[10 Marks]

Q.2) Create a Node.js file that opens the requested file and returns the content to the client

If anything goes wrong, throw a 404 error

[**20 Marks**]

Q.3) Viva   **[5 Marks]**

Time: 3 Hours   **Max. Marks: 35**

_____

Q.1) Create a Node.js file that demonstrate create college database and table in MySQL

[10 Marks]

Q.2) Write node js script to build Your Own Node.js Module. Use require ('http') module is a built-in Node module that invokes the functionality of the HTTP library to create a local server. Also use the export statement to make functions in your module available externally. Create a new text file to contain the functions in your module called, "modules.js" and add this function to return today's date and time.

[**20 Marks**]

Q.3) Viva   **[5 Marks]**

------------------------- Slip 10 --------------------

Time: 3 Hours   **Max. Marks: 35**

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Q.1) Create a Node.js file that demonstrates create Movie database and table in MySQL.

[10 Marks]

Q.2) Write node js application that transfer a file as an attachment on web and enables browser to prompt the user to download file using express js

[**20 Marks**]

Q.3) Viva   **[5 Marks]**

------------------------- Slip 11 --------------------

Time: 3 Hours   **Max. Marks: 35**

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Q.1) Create a node.js file that Select all records from the "customers" table, and display the result object on console.

[10 Marks]

Q.2) Create an HTML form for Student Feedback Form with Name, Email ID, Mobile No., feedback (Not good, good, very good, excellent) and write a JavaScript to validate all field using Regular Expression.

[**20 Marks**]

Q.3) Viva   **[5 Marks]**

Time: 3 Hours   **Max. Marks: 35**

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Q.1) Create a Node.js file that will convert the output "HELLO WORLD!" into lower-case letters.

[10 Marks]

Q.2) Create an HTML form that contain the Student Registration details and write a JavaScript to validate Student first and last name as it should not contain other than alphabets and age should be between 18 to 50.

[**20 Marks**]

Q.3) Viva   **[5 Marks]**

Time: 3 Hours   **Max. Marks: 35**

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Q.1) Create a Simple Web Server using node js.

[10 Marks]

Q.2) Create an HTML form that contain the Employee Registration details and write a JavaScript to validate DOB, Joining Date, and Salary.

[**20 Marks]**

Q.3) Viva   **[5 Marks]**

------------------------- Slip 14 --------------------

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Q.1) Create a node.js file that Select all records from the "students" table, and display the result object on console.

[10 Marks]

Q.2) Create an HTML form for Employee and write a JavaScript to validate name, email ID, mobile number, department, joining date using Regular Expression.

[**20 Marks**]

Q.3) Viva   **[5 Marks]**

------------------------- Slip 15 --------------------

Time: 3 Hours   **Max. Marks: 35**

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Q.1) Using node js create a Recipe Book.

[10 Marks]

Q.2) Create a js file named main.js for event-driven application. There should be a main loop that listens for events, and then triggers a call-back function when one of those events is detected.

[**20 Marks**]

Q.3) Viva   **[5 Marks]**

------------------------- Slip 16 --------------------

Time: 3 Hours   **Max. Marks: 35**

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Q.1) Using angular js Create a SPA that show Syllabus content of all subjects of M.Sc (CS) Sem-II (use ng-view)

[10 Marks]

Q.2) Using angular js display the 10 student details in Table format (using ng-repeat directive use Array to store data)

[20 Marks]

Q.3) Viva   **[5 Marks]**

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_____

Q.1) Using node js create a User Login System

[10 Marks]

Q.2) Create a node.js file that Select all records from the "customers" table, and find the customers whose name starts from 'A'.

[**20 Marks**]

Q.3) Viva   **[5 Marks]**

------------------------- Slip 18 --------------------

Time: 3 Hours   **Max. Marks: 35**

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Q.1) Create a Node.js file that will convert the output "Hello World!" into upper-case letters.

[10 Marks]

Q.2) Using angular js create a SPA to accept the details such as name, mobile number, pin code and email address and make validation. Name should contain character only, address should contain SPPU M.Sc. Computer Science Syllabus 2023-24, mobile number should contain only 10 digit, Pin code should contain only 6 digit, email id should contain only one @, . Symbol.

[20 Marks]

Q.3) Viva   **[5 Marks]**

Time: 3 Hours   **Max. Marks: 35**

_____

Q.1) Create a Node.js file that demonstrate create student database and table in MySQL

[10 Marks]

Q.2) Using angular js create a SPA to carry out validation for a username entered in a textbox. If the textbox is blank, alert "Enter username". If the number of characters is less than three, alert " Username is too short". If value entered is appropriate the print "Valid username" and password should be minimum 8 characters

[**20 Marks**]

Q.3) Viva   **[5 Marks]**

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_____

Q.1) Create a Node.js file that demonstrate create Movie database and table in MySQL

[10 Marks]

Q.2) Write node js application that transfer a file as an attachment on web and enables browser to prompt the user to download file using express js.

[20 Marks]

Q.3) Viva   **[5 Marks]**

Time: 3 Hours   **Max. Marks: 35**

_____

Q.1) Using node js create an Employee Registration Form validation.

[**10 Marks**]

Q.2) Create a js file named main.js for event-driven application. There should be a main loop that listens for events, and then triggers a callback function when one of those events is detected.

[**20 Marks**]

Q.3) Viva   [**5 Marks**]

Time: 3 Hours   **Max. Marks: 35**

_____

Q.1) Write node js script to interact with the file system, and serve a web page from a File

[10 Marks]

Q.2) Write node js script to build Your Own Node.js Module. Use require ("http") module is a built-in Node module that invokes the functionality of the HTTP library to create a local server. Also use the export statement to make functions in your module available externally. Create a new text file to contain the functions in your module called, "modules.js" and add this function to return today's date and time.

[20 Marks]

Q.3) Viva   **[5 Marks]**

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_____

Q.1)   Using node js create an eLearning System

[10 Marks]

Q.2) Using angular js create a SPA to carry out validation for a username entered in a textbox. If the textbox is blank, alert "Enter username". If the number of characters is less than three, alert " Username is too short". If value entered is appropriate the print "Valid username" and password should be minimum 8 characters

[**20 Marks**]

Q.3) Viva   **[5 Marks]**

Time: 3 Hours   **Max. Marks: 35**

_____

Q.1) Create an angular JS Application that shows the location of the current web page.

[10 Marks]

Q.2) Create a js file named main.js for event-driven application. There should be a main loop that listens for events, and then triggers a callback function when one of those events is detected.

[**20 Marks**]

Q.3) Viva   **[5 Marks]**

------------------------- Slip 25 --------------------