**POORNIMA UNIVERSITY, JAIPUR.**

**END SEMESTER EXAMINATION, April 2023**

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|  | **2BC4123** | Roll No. | Total Printed Pages: 2 |
| **2BC4123** |  |
| BCA II Year IV- Semester (Back) End Semester Examination, April 2023  **(Gen.)** | |
| **BCA04101 / BCA04103– Interactive Web Application Development** | | | |

# Max. Time: **3** Hours. Max. Marks: **60**

Min. Passing Marks: **21**

Attempt **five** questions selecting one question from each Unit. There is internal choice from Unit I to Unit V. Marks of each question or its parts are indicated against each question / parts. Draw neat sketches wherever necessary to illustrate the answer. Assume missing data suitably (if any) and clearly indicate the same in the answer.

Use of following supporting material is permitted during examination for this subject.

# **1.----------------------------------------------** **2.-----------------------------------------**

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|  |  | **UNIT-I (CO1)** | **Marks** | **Bloom Level** |
| **Q.1** | **(a)** | What is the difference between client side and server side scripting language? List name of such languages and explain role of JavaScript in scripting. | **(6)** | **Understanding and analysis** |
|  |  |  |  |  |
|  | **(b)** | What is the role of JavaScript in developing interactive webpages? Write program in JavaScript which takes number form user and print table of the same. | **(6)** | **Understanding and Apply** |
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|  |  | **OR** |  |  |
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| **Q.2** | **(a)** | What are the different types of interaction we can plan in website? Explain role of server side scripting with example. | **(6)** | **Analysis and understanding** |
|  |  |  |  |  |
|  | **(b)** | What do you mean by static and dynamic websites? What is the role of javascript in developing such websites? | **(6)** | **Understanding and analysis** |
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|  |  | **UNIT-II (CO2)** |  |  |
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| **Q.3** | **(a)** | Explain bitwise and Comparison operators in javascript with example? | **(6)** | **Understand and Apply** |
|  |  |  |  |  |
|  | **(b)** | Create a webpage using JavaScript to create a calculator having sum, subtraction, multiplication and division of 2 numbers inputted by user. | **(6)** | **Apply** |
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|  |  | **OR** |  |  |
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| **Q.4** | **(a)** | What do you mean by DOM? Explain HTML DOM and getElementByID method with its utilization. | **(6)** | **Understand** |
|  |  |  |  |  |
|  | **(b)** | Write a program in JavaScript having a function to print area of a circle with radius from of 1 to user inputted natural number. (PI=3.14) | **(6)** | **Apply** |
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|  |  | **UNIT-III (CO3)** |  |  |
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| **Q.5** | **(a)** | Write a program in JavaScript using jQuery library to capture different user mouse events and interact accordingly? | **(6)** | **Apply** |
|  |  |  |  |  |
|  | **(b)** | Write a program in JavaScript using jQuery library in which first moves the <p> element to the right, and then increases the font size of the text | **(6)** | **Apply** |
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|  |  | **OR** |  |  |
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| **Q.6** | **(a)** | What do you understand by class selector? Write code in JavaScript to select one tag class Id “demo” and animate the contents. | **(6)** | **Understand and Apply** |
|  |  |  |  |  |
|  | **(b)** | What is *hover ()* method in jQuery? Write a code to apply hover on h1 tag containing some text. | **(6)** | **Apply** |
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|  |  | **UNIT-IV (CO4)** |  |  |
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| **Q.7** | **(a)** | What is window Navigator object? Which information its carries. Write syntax to obtain this information. | **(6)** | **Understanding** |
|  |  |  |  |  |
|  | **(b)** | What are cookies write a code to create a Cookie with JavaScript | **(6)** | **Understanding and Apply** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
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| **Q.8** | **(a)** | Write code to create a job registration from with fieldset of personal information, academic and professional information and validate fields. no text field should be empty. | **(6)** | **Apply** |
|  |  |  |  |  |
|  | **(b)** | Explain JavaScript Window History object with its different methods. How it can be utilized for better user experience. | **(6)** | **Understanding** |
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|  |  | **UNIT V (CO5)** |  |  |
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| **Q.9** | **(a)** | What the utilization of AJAX is in today’s web experience? Explain AJAX request and response with example. | **(6)** | **Understanding** |
|  |  |  |  |  |
|  | **(b)** | Explain difference between Browser object model and Document object model. How to utilize these for better user experience. | **(6)** | **Analysis Understanding** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.10** | **(a)** | Explain JSON file structure. Write code to access a json file from remote server and display it in Div tag. . | **(6)** | **Understanding and Apply** |
|  |  |  |  |  |
|  | **(b)** | What do you mean by synchronous and asynchronous programming? Create a registration form having name address phone no, gender and comment fields. Write code to send the filled data in alert box. | **(6)** | **Apply** |