**POORNIMA UNIVERSITY, JAIPUR**

**END SEMESTER EXAMINATION, November 2022**

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|  | **3BT5108** | Roll No. | Total Printed Pages: 2 |
| **3BT5108** |  |
| B. Tech. III Year V- Semester (Back) End Semester Examination, November 2022  **(CE)** | |
| **BCE05103: 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)** | Scripting Language is the same as Programming Language. Do you agree with this statement? Justify your answer. | **(6)** | **Analyzing** |
|  |  |  |  |  |
|  | **(b)** | What is glue language? Mention its uses. Also illustrate various features of glue language. | **(6)** | **Understanding** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
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| **Q.2** | **(a)** | Suppose Rohit is a web developer in a software company and his project manager asked him to design a Grades App in java script which computes the average marks of 5 subjects and then use this average to determine the corresponding grade of 3 students of your class. Help Mohit to design this App. | **(8)** | **Creating** |
|  |  |  |  |  |
|  | **(b)** | Mention the difference between server side scripting and client side scripting. | **(4)** | **Understanding** |
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|  |  | **UNIT-II (CO2)** |  |  |
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| **Q.3** | **(a)** | Write a program which illustrates the use of switch case in java script. | **(6)** | **Applying** |
|  |  |  |  |  |
|  | **(b)** | Describe how errors can be resolved in Java script. Simulate the mechanism of different error handler used in Java script while developing an application. | **(6)** | **Applying** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
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| **Q.4** | **(a)** | Prepare an application to show the use of various looping statements in Java script based on their functionality and working procedure. | **(6)** | **Creating** |
|  |  |  |  |  |
|  | **(b)** | Demonstrate the use of control statement for decision making and branching. | **(6)** | **Remembering** |
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|  |  | **UNIT-III (CO3)** |  |  |
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| **Q.5** | **(a)** | What are the various properties and methods of the object model used in JavaScript to secure the application? | **(6)** | **Applying** |
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|  | **(b)** | Suresh is a JavaScript programmer in Poornima University, he wants to create JavaScript program to hide & show any paragraph when user click on respective button. So help him to solve his problem. | **(6)** | **Analyzing** |
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|  |  | **OR** |  |  |
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| **Q.6** | **(a)** | How to access and update HTML and CSS document dynamically with the help of DOM? | **(6)** | **Analyzing** |
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|  | **(b)** | Write Short note on following:  (i) DOM (ii) Creating Node (iii) Namespaces | **(6)** | **Remembering** |
|  |  |  |  |  |
|  |  | **UNIT-IV (CO4)** |  |  |
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| **Q.7** | **(a)** | Explain following JavaScript components with suitable example.(**Any two**)   * Toggle Panels * Light box * Tabs * Data filter | **(6)** | **Applying** |
|  |  |  |  |  |
|  | **(b)** | Demonstrate how different type of dialogue boxes are used in a Windows based application based on different requirement. | **(6)** | **Analyzing** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
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| **Q.8** |  | Suppose Rakesh is working as a web developer in a XYZ software development company and his project manager asked him to create a java script registration form that collects the first name, last name, email, user id, and password and confirm password from the user. All the inputs are mandatory and email address entered should be in correct format. Password must be 8 characters long and having at least one number. Also, the values entered in the password and confirm password textboxes should be the same. After validating using JavaScript, In output display proper error messages in blue color just next to the textbox where there is an error. Help Rakesh to design this registration form. | **(12)** | **Creating** |
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|  |  | **UNITV (CO5)** |  |  |
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| **Q.9** | **(a)** | Demonstrate the process of database management and object mapping of JSON application. | **(6)** | **Applying** |
|  |  |  |  |  |
|  | **(b)** | Illustrate the working of Ajax with suitable diagram and steps. | **(6)** | **Understanding** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
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| **Q.10** | **(a)** | Summarise how AJAX is used with Java script to handle various kinds of events, occur during execution of an application. | **(6)** | **Analyzing** |
|  |  |  |  |  |
|  | **(b)** | Describe various uses and characteristics of JSON. Identify the mechanism of various web token used in JSON while working with an online application | **(6)** | **Analyzing** |