**POORNIMA UNIVERSITY, JAIPUR**

**END SEMESTER EXAMINATION, April 2023**

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|  | **2BC4136** | Roll No. | Total Printed Pages: 2 |
| **2BC4136** |  |
| BCA II Year IV Semester (Back) End Semester Examination, April 2023  **(Gen.)** | |
| **BCA04102 : Server Side Scripting** | | | |

# 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)** | Discuss web server architecture with the help of suitable diagram. Differentiate between client side and server side scripting. | **(6)** | Analyzing |
|  |  |  |  |  |
|  | **(b)** | What do you mean by content management system? Also discuss its advantages and disadvantages. | **(6)** | Understanding |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.2** | **(a)** | What is the requirement of web frameworks? What is the selection criterion of it? Explain any two server side web frameworks | **(6)** | Understanding |
|  |  |  |  |  |
|  | **(b)** | Explain MVC architecture with the help of diagram. | **(6)** | Remembering |
|  |  |  |  |  |
|  |  | **UNIT-II (CO2)** |  |  |
|  |  |  |  |  |
| **Q.3** | **(a)** | Write a python program to find largest among for integers without using AND logical operator. | **(6)** | Remembering |
|  |  |  |  |  |
|  | **(b)** | Write a python program to handle a Divide by Zero exception. | **(6)** | Analyzing |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.4** | **(a)** | Differentiate tuple, list and dictionary with examples. | **(6)** | Analyzing |
|  |  |  |  |  |
|  | **(b)** | What is the various operation that are available for set in python Example with suitable example | **(6)** | Remembering |
|  |  |  |  |  |
|  |  | **UNIT-III (CO3)** |  |  |
|  |  |  |  |  |
| **Q.5** | **(a)** | Axis Bank wants an application for Interest Calculation. You are a python developer, so create this desktop application where user will provide Principal, Amount and Time and your application will show Interest. | **(6)** | Applying |
|  |  |  |  |  |
|  | **(b)** | Write a python program to store a record of an employee in employee table (fields are emp\_name, emp\_ID, emp\_Salary , emp\_department) | **(6)** | Creating |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.6** | **(a)** | Define the following :  (i) CGI Programming (ii) Multithreading (iii) GUI using python | **(6)** | Applying |
|  |  |  |  |  |
|  | **(b)** | Differentiate between server socket and client socket. Write a code to ping server socket using client socket | **(6)** | Analyzing |
|  |  |  |  |  |
|  |  | **UNIT-IV (CO4)** |  |  |
|  |  |  |  |  |
| **Q.7** | **(a)** | Discuss the followings:  i. Installation of RoR & Framework of RoR  ii. List out what can Rails migration do. | **(6)** | Remembering |
|  |  |  |  |  |
|  | **(b)** | Explain what are naming conventions in Rails | **(6)** | Analyzing |
|  |  |  |  |  |
|  |  | **OR** |  |  |
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| **Q.8** | **(a)** | Explain what is the role of subdirectory app/controllers | **(6)** | Remembering |
|  |  |  |  |  |
|  | **(b)** | What is Ruby on rails? Describe its features with examples | **(6)** | Remembering |
|  |  |  |  |  |
|  |  | **UNIT V (CO5)** |  |  |
|  |  |  |  |  |
| **Q.9** | **(a)** | Explain how MYSQL is embedded in Rails with proper steps | **(6)** | Creating |
|  |  |  |  |  |
|  | **(b)** | How to send Email using ruby on rails? Write down the code to send the email. | **(6)** | Analyzing |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.10** | **(a)** | Mention what is role of Rails Controller. | **(6)** | Creating |
|  |  |  |  |  |
|  | **(b)** | Explain what is Rails Active Record in Ruby on Rails. | **(6)** | Applying |