**POORNIMA UNIVERSITY, JAIPUR**

**END SEMESTER EXAMINATION, November 2022**

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|  | **2BC3143** | Roll No. | Total Printed Pages: 2 |
| **2BC3143** |  |
| BCA II Year III-Semester (Main/Back) End Semester Examination, November 2022  **(General)** | |
| **BCACCA3104 : Software Testing** | | | |

# Time: **3** Hours. Total 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.--------------------------Nil--------------------** **2.------------------Nil-----------------------**

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|  |  | **UNIT-I (CO1)** | **Marks** | **Bloom Level** |
| **Q.1** | **(a)** | Discuss the model for Software Testing. | **(6)** | **Konowledge** |
|  |  |  |  |  |
|  | **(b)** | What are the different Software Testing goals? | **(6)** | **Understand** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.2** | **(a)** | Effective testing not exhaustive testing, Justify. | **(6)** | **Analyze** |
|  |  |  |  |  |
|  | **(b)** | The domain of possible inputs to the software is too large to test. Demonstrate using some example programs. | **(6)** | **Apply** |
|  |  |  |  |  |
|  |  | **UNIT-II (CO2)** |  |  |
|  |  |  |  |  |
| **Q.3** | **(a)** | Discuss the life cycle of a Bug. | **(6)** | **Evaluate** |
|  |  |  |  |  |
|  | **(b)** | After upgradation a mobile application make a test strategy for a minimum 3 test factors with phases. | **(6)** | **Analyze** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.4** | **(a)** | What are the benefits of early testing? How this can be achieved? | **(6)** | **Understand** |
|  |  |  |  |  |
|  | **(b)** | Explain the difference between Verification and Validation. | **(6)** | **Evaluate** |
|  |  |  |  |  |
|  |  | **UNIT-III (CO3)** |  |  |
|  |  |  |  |  |
| **Q.5** | **(a)** | What are the steps followed in a standard dynamic testing techniques in software testing? | **(6)** | **Knowledge** |
|  |  |  |  |  |
|  | **(b)** | Write valid and invalid test cases for a boundary value analysis of a system that accepts ages from 18 to 56. | **(6)** | **Apply** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.6** | **(a)** | The white box testing contains various tests, describe them in brief. | **(6)** | **Understand** |
|  |  |  |  |  |
|  | **(b)** | Explain basis path testing in software engineering with a suitable example. | **(6)** | **Create** |
|  |  |  |  |  |
|  |  | **UNIT-IV (CO4)** |  |  |
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| **Q.7** | **(a)** | What is Static Testing in Software Testing? | **(6)** | **Evaluate** |
|  |  |  |  |  |
|  | **(b)** | What are the different Static Testing Techniques? Explain any of them. | **(6)** | **Analyze** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.8** | **(a)** | What is Integration Testing in Software Testing? | **(6)** | **Knowledge** |
|  |  |  |  |  |
|  | **(b)** | What are the different Integration test approaches? Explain any of them. | **(6)** | **Understand** |
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|  |  | **UNIT V (CO5)** |  |  |
|  |  |  |  |  |
| **Q.9** | **(a)** | What is Test Management in Software Testing? | **(6)** | **Analyze** |
|  |  |  |  |  |
|  | **(b)** | Why do We Need Test Management? | **(6)** | **Apply** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.10** | **(a)** | What are the Main Questions that you should ask before finalizing the Test Management Tool for your Project? | **(6)** | **Evaluate** |
|  |  |  |  |  |
|  | **(b)** | Enumerate the list of Test Management Tools for Software Testing. | **(6)** | **Create** |