**POORNIMA UNIVERSITY, JAIPUR**

**END SEMESTER EXAMINATION, November 2022**

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|  | **2BC3105** | Roll No. | Total Printed Pages: 2 |
| **2BC3105** |  |
| **BCA II Year III Semester** (Main/Back) End Semester Examination, November 2022  **(AIDS)** | |
| **BCAECA3112 : Software Engineering & Project Management** | | | |

# 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)** | Software Engineering: what is it? Define is Data dictionary? | **(6)** | **Understanding** |
|  |  |  |  |  |
|  | **(b)** | Briefly explain Classical Waterfall model with diagram. | **(6)** | **Analyze** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.2** | **(a)** | Define software testing? Define DFD for your own project. | **(6)** | **Remember** |
|  |  |  |  |  |
|  | **(b)** | Describe the term Decision tables & Decision Trees. | **(6)** | **Create** |
|  |  |  |  |  |
|  |  | **UNIT-II (CO2)** |  |  |
|  |  |  |  |  |
| **Q.3** | **(a)** | Software Reuse and Software Maintenance issues-Explain. | **(6)** | **Conceptual** |
|  |  |  |  |  |
|  | **(b)** | Define the terms "architectural design" and "interface design" as they relate to software engineering. | **(6)** | **Remember** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.4** | **(a)** | Write down the difference between Engineers and Engineering? What about Component Level design. | **(6)** | **Remember** |
|  |  |  |  |  |
|  | **(b)** | What does the term "software prototyping" mean? Could you briefly describe the value of a feasibility study? | **(6)** | **Remember** |
|  |  |  |  |  |
|  |  | **UNIT-III (CO3)** |  |  |
|  |  |  |  |  |
| **Q.5** | **(a)** | Write down the short notes in the following:  i) Debugging techniques, ii) System testing | **(6)** | **Create** |
|  |  |  |  |  |
|  | **(b)** | What justifies the use of white box testing? Describe the purpose of debugging. | **(6)** | **Remember** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.6** | **(a)** | The need for monitoring and control systems in software design. Give more information. | **(6)** | **Remember** |
|  |  |  |  |  |
|  | **(b)** | Definition of software testing. How does a smoke test work? | **(6)** | **Remember** |
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|  |  |  |  |  |
|  |  | **UNIT-IV (CO4)** |  |  |
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| **Q.7** | **(a)** | What about SQA? Explain the coding review. | **(6)** | **Create** |
|  |  |  |  |  |
|  | **(b)** | Distinguish between Functional and non-functional Testing with proper example. Define the generation of Data. | **(6)** | **Conceptual** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.8** | **(a)** | Integrating testing: what is it? Reverse engineering in software is defined. | **(6)** | **Remember** |
|  |  |  |  |  |
|  | **(b)** | Describe ISO 9001 and 9000 in a few words. What distinguishes ISO 9000 from ISO 9001? | **(6)** | **Remember** |
|  |  |  |  |  |
|  |  | **UNITV (CO5)** |  |  |
|  |  |  |  |  |
| **Q.9** | **(a)** | Explain the various phases of Project management. | **(6)** | **Create** |
|  |  |  |  |  |
|  | **(b)** | Write down the short notes on the following: (**Any One**)  (i) Software Project Scheduling (ii) Project Cost estimation | **(6)** | **Create** |
|  |  |  |  |  |
|  |  | **OR** |  |  |
|  |  |  |  |  |
| **Q.10** | **(a)** | Briefly explain CASE tools. | **(6)** | **Remember** |
|  |  |  |  |  |
|  | **(b)** | Define COCOMO models. What are the objectives of this model? Write down the name of three model related to COCOMO. | **(6)** | **Remember** |