



POORNIMA UNIVERSITY, JAIPUR
END SEMESTER EXAMINATION, 2023-2024 EVEN SEMESTER

Write Roll No Below: _____

BCA (All) I () - II (Main/Back) End Semester Examination,
23BCACCA2104: Software Engineering

Time: 3 Hours

Total Marks: 60

Min. Passing Marks: 21/24/27

Question Paper ID: 001091

Instructions: Attempt all five questions. There is an internal choice either (a or b) in Q1 to Q5. Marks of each question or its parts are indicated against each question/part. Draw neat sketches wherever necessary to illustrate the answer. Assume missing data suitably (if any) and clearly indicate the same in the answer.

Bloom Level(BL): 1-Remembering, 2-Understanding, 3-Appling, 4-Analysing, 5-Evaluating, 6-Creating

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

- Q1. (a)** (i) Describe Software Engineering. Why is important in Software Development? **[6 Marks]** **Marks BL CO**
12 2 1
(ii) Describe Software Requirement Specification (SRS).Explain Key Components and Features of SRS. **[6 Marks]**
- (OR)**
- (b)** (i) What is Software ? How to develop a Software ? Describe various phases to develop a Software. **[6 Marks]**
(ii) Describe Waterfall Model with its Pros and Cons.**[6 Marks]**
- Q2. (a)** (i) Describe Software Design with its features. Explain Objectives of Software Design Model. **[6 Marks]** **Marks BL CO**
12 1 2
(ii) What is the difference between Coupling and Cohesion? **[6 Marks]**
- (OR)**
- (b)** (i) Explain Software Design Process . Describe the difference between Interface Design and Architectural Design . **[6 Marks]**
(ii) Describe Framework and Principles of Software Design. **[6 Marks]**
- Q3. (a)** (i) Describe Software Coding . Draw a flowchart of Software Coding. **[6 Marks]** **Marks BL CO**
12 3 3
(ii) Describe Software Testing with its features. **[6 Marks]**
- (OR)**
- (b)** Explain Following Topics:
(i) Alpha Testing **[4 Marks]**
(ii) Beta Testing **[4 Marks]**
(iii) Acceptance Testing **[4 Marks]**
- Q4. (a)** (i) Describe the Overview of SQA. with its process. **[6 Marks]** **Marks BL CO**
12 4 4
(ii) What is SCM? Describe various tasks and participants of SCM process. **[6 Marks]**
- (OR)**
- (b)** (i) Write the differences between Software Re-Engineering and Software Reverse Engineering. **[6 Marks]**
(ii) Define the ISO 9000 Certification. Why is ISO Certification required by the Software Industries? **[6 Marks]**
- Q5. (a)** (i) Define the Software Project Management . Explain the various phases of Software Project Management. **[6 Marks]** **Marks BL CO**
12 5 5
(ii) What is COCOMO Model? What is the use of COCOMO Model in Software Project Management? **[6 Marks]**
- (OR)**
- (b)** (i) What is the difference between Design Workbenches and Testing Workbenches? **[6 Marks]**
(ii) What is CASE ? Explain the types of CASE Tools. **[6 Marks]**

End of Question Paper