Section D

10. Explain the Rapid prototyping model in detail. **8**

Or

Explain time boxing and spiral models in detail.

11. Explain Project scheduling and its types in detail. **8**

Or

Explain risk management in detail.

12. Explain the difference between cohesion and coupling with examples. **8**

Or

Explain the following :

(a) PDL

(b) Verification and Validation

13. Explain the types of maintenance and coding process in detail. **8**

Or

Explain the process of testing and differentiate between white and black box testing.

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B.C.A. EXAMINATION, 2026

(Second Semester)

(From 2019-20 Onwards) (Re-appear Only)

SOFTWARE ENGINEERING

Time : 3 *Hours*] [*Maximum Marks :* 80

Before answering the question-paper, candidates must ensure that they have been supplied with correct and complete question-paper. No complaint, in this regard will be entertained after the examination.

Note : All questions in Section A and Section B are compulsory. Attempt *one* question out of *two* alternatives for each question in Section C and Section D.

Section A

1. (a) Define Software Engineering

(b) Explain SRS

(c) Define Problem Analysis

(d) Explain SCM

(e) What is Quality plan ?

(f) What is staffing ?

(g) Define UML

(h) What is Coupling ?

(i) What are design notations ?

(j) What do you mean by testing ?

(k) Define Coding process

(1) What are common coding errors ?

12×1=12

Section B

2. Explain software development process in detail. **3**

3. Explain COCOMO model in detail. **3**

4. Explain structures design methodology in detail. **3**

5. Explain Black Box testing. **3**

Section C

6. Explain different components and structure of SRS document. **6**

Or

Explain the Water fall model with its advantages and disadvantages.

7. Explain project monitoring plan in detail. **6**

Or

What is effort estimation ? Explain the uncertainties in effort estimation.

8. Explain the difference between OO analysis and design with examples. **6**

Or

Explain Cyclomatic complexity with suitable example.

9. What are test cases and test criteria ? Explain testing process in detail. **6**

Or

Explain the various types of errors and refactoring in detail.