



'সমানো মন্ত্র: সমিতি: সমানী'

**UNIVERSITY OF NORTH BENGAL**

BCA Honours 4th Semester Examination, 2023

**CC9-BACHELOR OF COMPUTER APPLICATION (42)**

**SOFTWARE ENGINEERING**

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.  
Answer all questions with internal choices.*

**GROUP-A**

**Answer any five questions**

1×5 = 5

1. List the task regions in the spiral model.
2. What is alpha testing?
3. What are key process areas of CMMI?
4. How testing is different from debugging?
5. Define coupling.
6. Define Software Metric.
7. What are functional requirements?
8. What is META Model?

**GROUP-B**

**Answer any three questions**

5×3 = 15

9. Mention the advantage and disadvantage of Waterfall Model.
10. Distinguish between Verification and Validation.
11. Differentiate between Black Box and White Box Testing.
12. Explain different types of risk associated with software project.
13. Write short note on Prototype Model.

**GROUP-C**

**Answer any two questions**

10×2 = 20

14. Explain the different types of Cohesion with example.
15. Draw DFD for Library Management System.
16. What is SRS? What are the characteristics of good and bad SRS?
17. Explain Branch Coverage and Path Coverage based testing strategy.

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