

School of Computing Science and Engineering**Bachelor of Science in Computer Science
Semester End Examination - Jun 2024****Duration : 180 Minutes
Max Marks : 100****Sem IV - E1UP402C - E1UJ401B - Software Engineering***General Instructions**Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator*

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| 1) | What does the term 'bug' mean in software testing? | K1(2) |
| 2) | Figure out the characteristics of software as a product. | K2(4) |
| 3) | Outline with example different types of software maintenance activities ? | K2(6) |
| 4) | Develop a UML class diagram for a library management system. | K3(9) |
| 5) | A software project is estimated to require 500 person-days of effort. If the team consists of 5 developers, solve how many days will it take to complete the project? | K3(9) |
| 6) | Determine various software quality attributes | K5(10) |
| 7) | Compare and contrast the Incremental model with the Waterfall model in terms of flexibility and adaptability. | K4(12) |
| 8) | Evaluate the effectiveness of the Spiral model in managing project risks compared to other models. | K5(15) |
| 9) | Deduct the cyclomatic complexity of A program consists of two if statements and one loop. | K5(15) |
| 10) | Explain effective way for reducing cyclomatic complexity | K6(18) |