

Computer Science & Engineering
BACHELOR OF TECHNOLOGY (CBCS - 2023)
B. Tech. Sem-III CS&E : WINTER : 2024
SUBJECT: SOFTWARE ENGINEERING

Day : Wednesday
Date : 11/12/2024

W-29203-2024

Time : 10:00 AM-01:00 PM
Max. Marks : 60

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagrams **WHEREVER** necessary.
- 4) Assume suitable data, if necessary.

Q. 1 Explain the software Phases of Generic software process model, with any one example. (10)

OR

What is agile development and How does it address the issue of the cost of change? Draw and explain in detail. (10)

Q. 2 What are the key steps involved in eliciting requirements? Provide examples of techniques used in the process. (10)

OR

Explain Behaviour modelling and its role in Requirement Analysis. How does it help in understanding system dynamics? (10)

Q. 3 What is Risk Management in Software Projects? Outline the Process of Identifying, Assessing and Mitigating Risks. (10)

OR

Define software project management. Why it essential for successful software development? (10)

Q. 4 What Object Oriented Design? Draw and Explain UML structure in detail. (10)

OR

Define the following design concepts:
a) Abstraction b) Modularity c) Refactoring. (10)

Q. 5 What are the core software Testing Principles? Explain how they guide effective testing practices. (10)

OR

What is Web site Testing? Discuss the different types of testing that are applied to web applications. (10)

Q. 6 What is Software Re-Engineering? Write a steps in Re-Engineering process. (10)

OR

What is software maintenance? Discuss the different types of software maintenance and their importance. (10)

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