

BACHELOR OF TECHNOLOGY (CBCS - 2023)
B. Tech. Sem-III Computer Science & Engineering : SUMMER : 2025
SUBJECT: SOFTWARE ENGINEERING

Day : Friday
Date : 16/05/2025

S-29203-2025

Time : 02:30 PM-05:30 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

Compare and Contrast water fall model and V-Model. Provide an example of each (10)

Q. 2 Explain the process of building a Use-Case. How does it help in capturing function Requirements? (10)

OR

What is an analysis model? Explain its importance in bridging the gap between requirements and design. (10)

Q. 3 Define software project management. Why it essential for successful software development? (10)

OR

Explain the factors that influence the selection of project approach. Compare different project management approaches. (10)

Q. 4 Define the following design concepts: (10)
a) Abstraction b) Modularity c) Refactoring.

OR

Define the following design concepts: (10)
a) Pattern b) Modularity c) Refinement.

Q. 5 Explain the difference between White Box and Black Box Testing. (10)

OR

What is Software testing? Explain different types of software testing. (10)

Q. 6 What are the 4 types of maintenance in Software Engineering? Explain in detail. (10)

OR

What is difference between Software maintenance and Reengineering and why important software maintenance. (10)

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