

TRIBHUVAN UNIVERSITY
INSTITUTE OF ENGINEERING
Examination and Control Division
Model Questions

Exam	Regular		
Level	BE	Full Marks	60
Programme	BCT	Pass Marks	24
Year/Part	III/II	Time	3 hrs

Subject: Software Engineering (ENCT 352)

Please Tick (✓) the Needed Instructions.

- ✓ Candidates are required to give their answers in their own words as far as practicable.
- ✓ Attempt **All** questions.
- ✓ The figures in the margin indicate **Full marks**.

1. What is software crisis? Discuss the software engineering myths that may considered during software development. [1+5]
2. Define process model. Compare waterfall and incremental model. Discuss how traditaional models are different from adaptive mopdels? [5]
3. Differentiate between agile development and plan driven development. Explain Lean software development. [2+4]
4. Differentiate between functional and non-functional requirements. Discuss requirement engineering process in detail. [2+6]
5. Discuss different architectural design styles highlighting their Characeteristics. [4]
6. Analyze the scenario for sample project and answer the questions given below.
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 - a. Draw the use case diagram by analyzing the use case descriptions. [6]
 - b. Draw the class diagram for the sample project. [6]
7. List out the objectives of testing.? Compare black-box testing and white-box testing. [1+3]
8. Discuss the importance of continuous testing in agile testing practices. [3]
9. A new release introduces multiple bugs despite passing unit tests. What additional testing would you recommend? [3]
10. Define Software quality assurance Discuss the need of software maintenance. [2+3]
11. Explain importance of CI/CD in modern software engineering. [4]