

Tribhuvan University  
**Institute of Science and Technology**  
 2082

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Bachelor Level / Third Year/ Sixth Semester/ Science  
**Computer Science and Information Technology (CSC 375)**  
 (Software Engineering)  
(NEW COURSE)

Full Marks: 60  
 Pass Marks: 24  
 Time: 3 hours.

*Candidates are required to give their answers in their own words as far as practicable.*  
 All figures in the margin indicate full marks.

**Section A**

**Long Answer Questions.**

**Attempt any TWO questions.**

[2×10=20]

1. List different stakeholders involved in software inspection. How software inspection is carried out? Explain. [2+8]
2. List some advantages of estimation. Explain COCOMO model. [2+8]
3. Why do you think software needs to be changed? Explain any one model that can be used to cope with the change. [3+7]

**Section B**

**Short Answer Questions**

**Attempt any EIGHT questions.**

[8×5=40]

4. Describe software engineering ethics that needs to be followed. Why is it important? [4+1]
5. Differentiate between plan driven and agile development. Explain agile project management. [2+3]
6. What do you understand by model driven architecture? Explain. [5]
7. What are the issues that may occur while implementation? How can these issues be handled? [3+2]
8. Explain the process of release testing and user testing. [5]
9. Define software maintenance. Explain the software maintenance process. [1+4]
10. Explain the steps that are carried out during configuration management. [5]
11. Explain the requirement engineering process. [5]
12. Write short notes on [2x2.5=5]
  - a. Project scheduling
  - b. Internet software engineering