Bachelor Level / sixth-semester / Science Full marks: 60 **Computer Science and Information Technology(CSC364)** Pass marks: 24
(Software Engineering) Time: 3 hours Candidates are required to give their answers in their own words as far as practicable.
The figures in the margin indicate full marks.

Attempt any Ten questions.(10 x 6 = 60)

1. Differentiate between software engineering and system engineering.

2. Describe a spiral model with its advantages and disadvantages.

3. What is risk management? Explain risk management process.

4. What is a software requirement? Explain software requirement process.

5. What is rapid prototyping technique? Mention the types of rapid prototyping techniques and explain

it. 6. Why is formal specification important for software development? Explain.

7. What is the client server model? Explain the advantages and disadvantages of the client server model.

8. Draw a use case diagram of the credit card validation system.[Use your own assumptions].

9. Describe the clean room software development process.

10. Compare and contrast between white box and black box testing.

11. What is source code translation? Explain the program translation process with a diagram.