NATIONAL INSTITUTE OF TECHNOLOGY, HAMIRPUR (H.P.)
Department of Computer Science and Engineering

End Semester Examination

Subject: CS-601
Topics in Software Engineering

Time: 3 hours
Maximum Marks: 60

Branch: *M.Tech (CSE)* 1ᵗʰ *Semester* **& Dual Degree** 9ᵗʰ *Semester.*

Note: *Attempt all questions.*
All Questions are of 6 marks.

1. Identify five common project risk strategies employed to address threats that your project may face. Give an example of each.

2. Describe use cases that an automated teller machine (ATM) or the automatic banking machine (ABM) provides to the bank customers. Customer uses a bank ATM to check balances of his/her bank accounts, deposit funds, withdraw cash and/or transfer funds (use cases). ATM Technician provides maintenance and repairs to the ATM.

3. Write the rules for drawing Jackson structure Diagram. Draw the flow chart of JSP Process.

4. What is software quality? Describe various goals of software Quality assurance?

5. What are the various Security Dimensions? Explain different levels of security?

6. Explain waterfall software process model in detail?

7. What are the Objectives of Requirement Engineering?

8. Explain briefly the two Specification techniques? Explain the benefits of Formal Specification?

9. Draw the process of Extreme Programming Project. Write a note to explain XP Practices?

10. Explain the role of aspect in software design?