1. All questions are **compulsory**.
2. **All questions** carry **equal** marks.
3. Draw **neat, labelled diagrams** wherever necessary

Q.1 Attempt the following (Any Four)   [20 Marks]
   a. What is Software Engineering? Explain Software Process.
   b. Explain Waterfall Model with advantages and disadvantages.
   c. Explain different phases of SDLC life cycle.
   d. What is SRS? State the different components of SRS.
   e. What is a Use-case diagram? Explain different components.
   f. Explain Unified Process Phases.

Q.2 Attempt the following (Any Four)   [20 Marks]
   a. What is Architectural Design?. Explain any two types with advantages and
      disadvantages.
   b. Write short notes on Coupling and Cohesion.
   c. Write short notes on Project Metrics and Process Metrics.
   d. Explain COCOMO-II model.
   e. What is software sizing? Explain four different approaches.
   f. Write a short note on Time-Line Chart.

Q.3 Attempt the following (Any Four)   [20 Marks]
   a. Explain Risk projection and Risk Refinement.
   b. Explain RMMM.
   c. Write a short note on SQA. Explain activities of SQA.
   d. Define SCM and their elements.
   e. What is Black Box Testing? Explain Equivalence Partitioning.
   f. Calculate Cyclomatic Complexity of below undirected graph using both the formula.