

Note: Question No. 1 is Compulsory

Attempt any 3 Questions from the Remaining Questions.

- Q1** **20**
- Define Software Engineering and explain Software Process Framework
  - What is CMM? Explain its different levels
  - What is agile development? What are its advantages
  - What is the role of analysis and design in software development
- Q2**
- What is Prescriptive Model? Explain Waterfall and Incremental Model. How are they different **10**
  - Explain Component Based Development and Formal Methods Model **10**
- Q3**
- What is agility? Explain its principles **10**
  - Explain XP **10**
- Q4**
- Explain core principles of Software Engineering Practice **10**
  - For "Assignment Management System" formulate problem statement. For the formulated problem statement draw Use Case Diagram and Activity diagram for each use case **10**
- Q5**
- Explain design concepts in brief **10**
  - Explain quality guidelines and quality attributes of software design **10**
- Q6**
- Define Risk. Identify two risks for your final year examination and prepare RMMM plan **10**
  - What is black box and white box testing. Draw CFG for the given PDL and find cyclomatic complexity. **10**
- ```

if(c1 or c2)
do
    s1;
    s2;
    while(c3)
else
    while(c4) s3;
s4;

```