M.Sc.IT.Sem-3

Seat No :_____

Paper No: 10: Subject Code: 3599

Software Engineering

Instruction: All questions carry equal marks.   Duration : 02:30 HRS

Marks:70

Q-1   Answer the following question

A   What is software Engineering? Explain significance of Software   7
      Engineering in detail.

B   Write a detailed note on nature of software.   7

OR

A   What is SDLC? Explain its phases in detail.   7

B   Explain spiral model in detail.   7

Q-2   Answer the following question

A   What is software requirement specification? Explain it with suitable   7
      example.

B   List out the techniques to gather information regarding given problem.   7
      Explain any of them.

OR

A   Write a note on format of SRS.   7

B   What is verification and validation?   7

Q-3   Answer the following question.

A   Compare: Coupling & Cohesion   7

B   Write a note on system design principles.   7

OR

A   Write a note on Quality Assurance Plan.   7

B   Write a complete note on Structure chart.   7

Q-4   Answer the following question

A   Write a detailed note on testing fundamentals.   7

B   What do you mean by reliability in context of software? Explain in detail.   7

OR

A   Explain: Error, Fault and Failure   7

B   How to formulate test cases? List out the process.   7

Q-5   Answer the following question

A   Write a note on design methodology.   7

B   What do you mean by Planning in context of software development?   7

OR

A   Differentiate: Functional Approach of software development & Object   7
      Oriented approach.

B   Write a note on Risk Management.   7