1) Define Software Enginevilng?

Software Engineering is the systematic application of engineering principles to the development, operation, and maintanance of software. It involves a structures. and disciplined approach to design, develop test and manage software systems efficiently and reliably.

2) Explain the Software Myths.

Software and the software development process.

Management Myths!

Mythi: It we have a problem, we can just add more people to fix Pt.

· Reality: Adding people to a late project makes it

Myth 2; Once we write the software, the job is done.

· Reality: Maintanance and updates often take more effort than initial development.

Toustomer Mythi:

- · Myth 1: Requirements can change edily because sophwar is flexible.
 - · Reality: Changing orequirements later in the development is costly and complex.
- Myth2: d'general statement of need is enough jor developers.
 - · Reality. Developers, nud. detailed, pinecise oreguise ments

Oeveloper Mythis:

- · Myth 1: Once the code is written and works, our job
 - · Reality: Testing, debugging, documentation, and support an equally important.
- . Myth 2: Software tools and techniques quorantee success
 - Reality: Tools support but do not suplace sound sophware engineering practices.

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- JExplain the Spriral Model and Unified Process
 - a) Spiral Model:
 - The Spiral Model is a risk-driven software developme -nt powers that combines iterative development with systematic aspects of the waterfall, model

- 1. Planning: Define objectives, constrainti, and alternatives.
- 2. Risk Analysis : I dentify and susolve orisks.
- 3. Engineering: Develop and verify the next product version.
- u. Evaluation: Evaluating with the customer and plan the next iteration.
- b) Unified Proces (UP):
- The Unified Poloceus is an iterative and Incremental software development process framework, commonly auxociated with Rational Unified Procus (RUP)

- Phases: 1. Inception: Define peroject goals and suppe.
- 2. Blaboration: Analyze the problem domain and define
- 3. Construction: Build the software system in increments w Transition: Deliver the system to users and deploy it.