What are the three required areas of skills of the system analyst?

System analysts need a great variety of special skills. They need to understand how to build information systems (**technical skills**) and must understand the business they are working for (**business skills**). They also need to understand people and the way they work (**people skills**)

Describe the triple constraint. What are the three components and what is the relationship between them?

Every project is constrained in different ways, often by its scope, time, and cost goals. A project manager must consider scope, time, and cost and balance these three often-competing goals.

Managing the triple constraint involves **making trade-offs between scope, time, and cost goals** for a project. Experienced project managers know that they must decide which aspect of the triple constraint is most important. If time is most important, one must change the initial scope and/or cost goals to meet the schedule. If scope goals are most important, one may need to adjust time and/or cost goals.

What is the difference between systems analysis and systems design?

- Systems analysis is to determine the *what* the new system should do. It is ***discovery*** and ***understanding***.

- Systems design is to determine *how* the new system should be built. It is ***structure*** and ***architecture***.

What is the purpose of systems analysis? Why is it important?

The purpose of systems analysis is to enable the system developer to **understand the user's requirements**. Without a good analysis of the user's needs and requirements, the new system will be inadequate in its solution or erroneous in its implementation.

Why interpersonal skills are important to an analyst?

- Analysts rely on others, including managers, users, programmers, technical specialists, customers, and vendors. These stakeholders include project participants from the very initial idea to the final implementation of the system. A qualified analyst must be an excellent *translator* for them.

- The analyst must be an effective *communicator* in many contexts, including conversations, interviews, technical reviews, and formal presentations.

What is the purpose of a System Vision Document?

The System Vision Document is a **brief statement** which describes the **overall objective of the new system**. Its purpose is to provide basic information about **the need and solution approach** to assist the client in deciding **whether to approve** a development project.

What does it mean to take a systems view of a project? How does taking a systems view of a project apply to project management?

- Taking a systems view means looking at the **big picture** of how a particular project fits into the **rest of the organization**.
- It is important for project managers to **understand the broader organizational environment** to ensure their projects **meet organizational needs**.