

## Socio-technical systems 2

### Name:

1. What types of requirement are defined during the systems engineering process?

Abstract functional requirements  
Required system properties  
Undesirable characteristics.

2. What are wicked problems?

Problems that are so complex that there cannot be a definitive specification and where understanding of the problem only emerges during the formulation of the solution.

3. Why are the requirements and design processes inter-leaved?

Constraints from existing systems limit the designer's freedom  
Some initial design may be required to structure the requirements process  
As the design is developed, requirements problems emerge and the requirements have to be changed.

4. What do you understand by a COTS system or component

A component that is commercially available and can be purchased and used in a system.

5. What is systems integration?

The process of assembling a system from its components

6. What organisational issues influence the design of a system

Process changes

Job changes

Organisational changes

7. What are the stages in the procurement of a COTS system?

Adapt requirements

Chose system

Issue request for bids

Chose supplier

8. What is a legacy system?

A computer-based, socio-technical system that was developed some time ago and which is critical for the functioning of a business.