1. What are the advantage of explicitly designing and documenting a software architecture?

2. What are the two ways in which an architectural model of a system may be used?

3. List 4 fundamental questions that should be addressed in architectural design? (any 4 from these)

4. What is an architectural pattern?

5. What is the fundamental characteristic of a repository architecture?

6. What is the most important advantage of a client-server architecture?

7. Briefly describe pipe and filter architecture?

A system is decomposed into a set of functional transformations that consume inputs and produce outputs. Data flows from one function to another (the pipeline) and is transformed as it passes through the sequence.

8. What are transaction-processing applications?

9. What are the principal functions of the 4 layers in a generic information system architecture?

(1) User interface

(2) User communications, authentication and authorization

(3) Information retrieval and modification

(4) Database and transaction management