

The questions can be answered in any order. You may need to consult the resources to look for help or check your answers.

Comparison of methods

1. Explain the difference between the terms "incremental" and "iterative"
2. Explain - "without looking" - what the abbreviation RAD stands for.
Then state some of the techniques used in RAD
3. What is the metaphor "Spiral" meant to convey (in the term "The Spiral Model")
4. What is the difference between a "process model" and a "systems development method".
5. In terms of the three types of situations (routine, problem solving, problem definition):
Can the different phases in UP be said to be designed with any of these situations in focus ?
Justify the answer.
6. What is the major (often questionable) assumption behind the waterfall Model?
7. What is the term "Agile" referring to when used in the context of software development?

Areas of knowledge + Experiments

1. Describe ("without looking") the 6 areas of knowledge (Kensing)
2. Explain the difference between having abstract knowledge about the users present work and having concrete experience with the same (Kensing)
3. Which areas of knowledge does the use of XP practices support?
4. Explain the similarities and differences between a technological spikes and experimental prototyping
5. Why do we need co-operation with end users in the development process?
6. Explain the meaning of the 2 areas in the middle of table 1 (Kensing). If necessary, look for answers in the text.
7. Give an example of a systems development situation where conducting an experiments could be helpful.
- then suggest an outline of the experiment
8. Explain the difference between inductive reasoning and deductive reasoning

9. Give an example of (not necessarily related to IT)
 - a. inductive reasoning
 - b. deductive reasoning
10. What is a hypothesis?
11. Explain the difference between
 - a. the empirical-inductive method
 - b. the hypothetical -deductive method

Choosing and adjusting a method

1. State (without looking) the "dimensions" in the diagram over the 5 critical factors affecting method selection (Boehm/Turner)
2. Why may a team consisting of technical very skilled developers fail to succeed in an agile project?
3. Describe the three critical factors that relate to the type of project
4. Could a project that scores low on Dynamism still be suitable for an agile approach?
5. How can UP be applied in an agile form (what is done in a special way)?
6. How can XP be adjusted to fit special needs?

Outsourcing

1. Give examples of potential benefits and pitfalls of outsourcing
2. State 2 things to consider before making a decision to outsource a task
3. Explain the reason why you selected the specific freelancer
4. Explain the procedure you set up or followed during the outsourcing part of your project
5. What would you do differently if you should do outsourcing again?
6. Explain advantages and disadvantages of the way you communicated with you freelancer