**Review 1 : Questions 1/19/2017**

Test-driven Development

* According to Kent Beck, why are feedback loops in software development so important?
* When building tests, what is a *mock* and why are such mocks important?
* What is red green test?
* What are advantages and disadvantages of test-driven development?

Process models

* Describe the four parts of the v-diagrams?
  + Which part(s) of the v-diagram takes most time?
  + Which part(s) take least time?

* Name, in order, at least four stages of waterfall model?
  + Why is it called waterfall model?
* Give an example application where the waterfall model might be suitable for.
* What are the major disadvantages of the waterfall model?
* Describe the agile model.
  + What are its key differences compared to waterfall model?
  + What are some potential disadvantes of agile?
* Describe DevOps? Why it is called DevOps?

Surveys

* An individual in a survey has three rights. In 2 lines (each) describe two survey procedures: one that maintains and one that violates
  + a subject’s right not to participate.
  + a subject’s right to privacy.
  + a subject’s right to be forgotten.
* For each of the following, use 2-5 lines to define and describe:
  + Semi-structured or structured interviews
  + Questionaires
  + Focus groups
  + Think aloud
  + Data analysis (using data mining)
* Pick any two of the above survery methods and describe how one can be **better** than the other.
* Pick any two of the above survey methods and describe one can be **worse** than the other.

Stakeholders

* Who are stake holders?
* What is non functional requirement of stakeholders?
* Assume you are assigned to develop a website of CSC department. Describe different solution for different stakeholders.
* What is feature option? Assume you have to design the architecture of a mobile phone. What will be the feature options in this context?