**Question 1.**

In this circumstance, I recommend using Agile methodology for some following reasons:

* In terms of requirements characteristics:
  + The requirements are defined quite clearly but the FU-EduNext is a new development system. FU has not had a similar system before, so there may be many changes during the development process.
  + FU leadership also expects the first version of the system to be put into use within 3 months and the project needs to be completed within 9 months. We can see that the time to finished and deployed project is quite fast.
  + With the help of the organization, using Agile is a good option because one of the principles of Agile is “Welcome changes”, so we can adapt easily with changes in user requirements.
* In terms of development team:
  + From this situation, the development team participating in the project will include 4-6 extensive experience and skills developers.
  + In addition, other departments commit to sending employees to join the project team to support project completion with high quality.

In conclusion, I recommend using Agile methodology for this project, so that we can push the speed of this project then we can have early the first version of the system. Also, we can adapt easily with changes in the requirements.

**Question 3.**

4 functional requirements:

* The system needs to provide the ability for lecturers to manage constructive questions and student group.
* Lectures can import student list from the FAP system or from Excel files, assign presentation and review group.
* Lectures can create reports on student activities such as answering questions, evaluating presentations of other students or groups.
* The system provides the ability for students to view constructive questions.

2 non-functional requirements:

* The system needs to allow users to log in with the FU’s email account on the Gmail platform, ensuring information security.
* The system needs to ensure high performance and reliability, requiring little training time to use.

**Question 6:**

* As a lecturer, I want to import my student class list, so that I can easily manage my student.
* As a lecturer, I want to create reports on student activities such as answering questions, so that I can know how my student thinks about those questions.

**Question 2:**

I suggest using functional testing for the team:

* Functional testing helps to check whether the product’s features meet the needs of the user or not. And if something goes wrong, they will be fixed quickly to avoid huge damage late.
* Because defects are detected and fixed early, functional testing not only helps companies reduce the time it takes to fix bugs, but also saves money in the long run.

The QA team will handler the testing.

**Question 4.**

Lecturers access the system -> choosing class -> import student list from excel.

Lecturers access the system -> choosing class -> choosing student group -> assign constructive questions.

Student access the system -> choosing class -> view constructive questions -> answer the question.

Student access the system -> choosing class -> view constructive questions -> evaluating presentations of other students or groups.

**Question 5.**

* Lecturers import files that is not Excel files.
* Student evaluating them self.
* Lecturers assign the null constructive questions.
* Students submit the answer with nothing in there.

**Question 7.**

**Assign presentation and review group**

**Adding task for each group**

**View all student of each group**

**Import from Excel**

**Import from FAP**

**Sort classes by lecturer manage**

**Write Assignment**

**Update student list**

**View all classes**

**View all student groups**

**View class by name**

**Import Student List**