**Question 1: select the correct answer:**

1. **In which phase of SDLC the system analyst gather user requirements?** 
   1. Implementation
   2. Analysis
   3. Planning
   4. Design
2. **In which phase of SDLC data to be stored in database is specified?**
   1. Implementation
   2. Analysis
   3. Planning
   4. Design
3. **In which phase of SDLC user interfaces are designed?**
   1. Implementation
   2. Analysis
   3. Planning
   4. Design
4. **In which phase of SDLC feasibility study is conducted?**
   1. Implementation
   2. Analysis
   3. Planning
   4. Design
5. **In which phase of SDLC the software being developed is tested?**
   1. Implementation
   2. Analysis
   3. Planning
   4. Design
6. **In which phase of SDLC the question “why an information system should be built?” is answered?**
   1. Implementation
   2. Analysis
   3. Planning
   4. Design
7. **In which phase of SDLC the question “how the system will operate, in terms of the hardware, software, and network infrastructure” is answered?**
   1. Implementation
   2. Analysis
   3. Planning
   4. Design
8. **Which of the following system development methodology the analysts and users precede sequentially from one phase to the next?**
   1. Phased
   2. Waterfall
   3. Parallel
   4. Prototyping
9. **In which of the following system development methodology, managing user expectation is hard?**
   1. Phased
   2. Waterfall
   3. Parallel
   4. Prototyping
10. **Which of the following system development methodology attempts to address the long time interval between the analysis phase and the delivery of the system in waterfall model by dividing the work then integrating it at the end?**
    1. Phased
    2. Waterfall
    3. Parallel
    4. Prototyping
11. **Which of the following system development methodology breaks the overall system into a series of versions that are developed sequentially?**
    1. Phased
    2. Waterfall
    3. Parallel
    4. Prototyping

**Question 2: XYZ company provide software solutions to their clients, which software development methodology (ies) should they select based on the following conditions:**

1. The company want to develop a complex system with poor schedule visibility.
2. The client need the software in a short time while their requirements is unclear.

**Question 3 : Please specify whether the following requirements is correct or not, and why? (in case it’s incorrect)**

1. The professor shall be able to update student’s grades.
2. The system shall be easy to use.
3. All requirements shall be implemented and tested.
4. The system shall provide the ability to view profile update profile and delete profile

**Question 4: Please specify whether the following is a functional or non-functional requirements:**

1. The system shall allow the user to change his picture
2. The system shall respond to user request in less than 1 second.
3. The system shall be available 80% of the time.
4. The System shall process a minimum of 8 transactions per second.
5. The system shall provide management report monthly.