United International University (UIU)
Dept. of Computer Science & Engineering (CSE)

Any examinee found adopting unfair means will be expelled from the trimester / program as per UIU disciplinary rules.

Answer all the questions.

The Scenario

Say, you have to develop a software to manage a fish farm. You have to enter the daily purchase of supplies into a software system. Everyday, the use of materials, that is the items that are used as food, will also be recorded in the system. The system will also keep track of total fish management like how many sold or died, how many sick, etc. It will keep track of the accountings of the farm like how much spent for purchasing fish feed and income from fish sales. Now answer the followings based on this scenario.

1. Choose a software engineering methodology that you will be using to develop this System. State some justifications **5**

   [CO1- Adapt a process methodology to develop a project.]

2. Write the Vision and Scope statement. **5**

   [CO2- Collect Requirement, Plan, schedule a project including risk assessment with proper documentation and presentation.]

3. Develop a work breakdown structure [CO2] **5**

4. Say you are a team of 3 members. Use Delphie estimation to estimate the project. **5**

   [CO3-Estimate Cost, Optimization, and performance calculation.]

5. In one line / one diagram describe the followings **10 X 1= 10**
   4 elements in each WBS Element
   Verb-Oriented WBS
   4% rule of decomposition
   Scrum Master
   Product Owner
   Backlog
   Phases of Rational Unified Process
   Spiral Model
   Effort
   Mutually exclusive