United International University (UIU)

Dept. of Computer Science & Engineering (CSE)

Mid Term Exam:: Trimester: Summer 2023
Course Code: CSE 469, Course Title: PROJECT MANAGEMENT
Total Marks: **30**   Duration: 1 hour 45 mins

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

Answer all the questions.

Consider the following Scenario:

We want to develop chatting software. Our group is small consisting of only 2 developers and 1 manager. We do not have any idea on developing such software. However, we are hopeful that our team will quickly learn the basics of the chatting software and start implementing it. We have a plan not to develop and release the software in one go. We will release separate versions of it. Since it will be a complicated software for us to develop, we should adapt to proper engineering methodology for the purpose. According to this scenario, answer the following questions.

1. Choose a software engineering methodology for developing the above-mention software system and justify your choice. Define the concept of **Scrum Master, Product owner, Sprint** according to SCRUM methodology.   **2+3**

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

2. Define the concept of Vision and Scope document. Write down the Vision and Scope Document for the project described above.   **4**

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

3. Mention the major principals followed in Work Breakdown Structure (WBS) estimation method. Develop a WBS and estimate (schedule/day/budget) for the above mention scenario following the principles/rules.   **3 + 3**

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

4. Say you have a team of Four (4) members/estimators. Show the steps of estimation (kick-off meeting, individual and assembled estimation steps) the above project using Delphi Wideband estimation method.   **5**

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

5. Write down major steps on Risk Plan management system. Develop a Risk Plan management sheet showing at least two major risks for the above scenario.   **5**

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

6. Assignment with presentation on Vision and Scope Document including estimation and risk management planning for a group project has been evaluated earlier (**Do not answer** this question, **already completed in classroom**).

                                   5

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