**Day 5 Assignment 2(SDLC)**

**Problem**: Explain the responsibility of scrum roles,

1. scrum master.
2. product owner.
3. development team

**Solution:**

1. **Scrum** **Master**

The Scrum Master is responsible for ensuring that the Scrum framework is understood and enacted. Their main responsibilities include:

1. Facilitating Scrum Events: Organizing and facilitating all Scrum ceremonies (Daily Stand-ups, Sprint Planning, Sprint Review, and Sprint Retrospective).

2. Removing Impediments: Helping the team identify and eliminate obstacles that hinder progress.

3. Coaching the Team: Ensuring that the team follows Agile practices and helping them to improve.

4. Protecting the Team: Shielding the team from external interruptions and distractions.

5. Collaboration and Communication: Promoting effective communication and collaboration within the team and with stakeholders.

6. Servant Leadership: Serving the team by focusing on their needs and facilitating their work rather than directing them.

**b. Product Owner**

The Product Owner is responsible for maximizing the value of the product resulting from the work of the Development Team. Their main responsibilities include:

1. Managing the Product Backlog: Creating, maintaining, and prioritizing the Product Backlog to ensure it reflects the most valuable work.

2. Defining Product Vision: Clearly articulating the product vision and ensuring it aligns with stakeholder needs and business goals.

3. Stakeholder Management: Engaging with stakeholders to gather requirements and feedback, and ensuring their needs are reflected in the Product Backlog.

4. Accepting Work: Reviewing and accepting or rejecting work completed by the Development Team.

5. Communicating with the Team: Providing clear guidance on what to build and in what order, and ensuring the team understands the Product Backlog items.

**c. Development Team**

The Development Team is responsible for delivering potentially releasable increments of the product at the end of each Sprint. Their main responsibilities include:

1. Self-Organization: Organizing their own work and managing their tasks to achieve the Sprint Goal.

2. Creating the Product: Developing the product according to the definition of "Done" and delivering potentially shippable increments.

3. Cross-Functionality: Having all the skills necessary within the team to complete the work without depending on others outside the team.

4. Continuous Improvement: Participating in Sprint Retrospectives to identify and implement improvements.

5. Collaboration: Working closely with the Product Owner and Scrum Master, and collaborating within the team to achieve the best outcomes.