**SIR SYED UNIVERSITY OF ENGINEERING & TECHNOLOGY**

**COMPUTER SCIENCE & INFORMATION TECHNOLOGY DEPARTMENT**

**Spring 2024**

**Software Engineering (CS-226)**

**Assignment # 1**

Semester: Batch:

Student’s Name: Roll#: Section:

Total Marks: 4 Marks Obtained:

| **CLO #** | **Course Learning Outcomes (CLOs)** | **PLO Mapping** | **Bloom’s Taxonomy** |
| --- | --- | --- | --- |
| CLO 1 | **Describe** various software engineering processes and activities. | PLO\_1  (Academic Education) | C2  (Understanding) |

Q1. Discuss how Technical Debt can be managed in a project.

Q2. Consider the following scenario:

You and your team have worked hard on a project; the project’s progress and feedback are really good. Every time you have delivered a feature of the project, you have tested its working and asked the client to verify the feature. The answer has been positive. But, one month before the project, the company director calls you and tells you that the client is not happy with the developed product as it does not help them achieve their goals. While you were really confident at the start of the project that what you were developing was going to be really useful for the client, you now sit dejected in your office.

Discuss the most probable reason for this to occur? List down and describe the steps and activities within the Agile framework which are important to avoid such scenario.

Q3. Refer to the document at: <https://pdf.usaid.gov/pdf_docs/Pnacu897.pdf>

Identify if this documentation was created using knowledge of Software Engineering or Software Project Management. Defend your answer.

Q4. Explain why an incremental software development model is beneficial to the project’s client.