Name:
Course/Year/Section:

Answer the following questions in MINIMUM of 5 sentences, and cite your source/s.

Questions	Answers	Sources
1. Why is Software Testing Necessary?	The testing is important since it discovers defects/bugs before the delivery to the client, which guarantees the quality of the software. It makes the software more reliable and easy to use. Thoroughly tested software ensures reliable and high-performance software operation.	https://www.toolsqa.com/software-testing/istqb/why-is-testing-necessary/
2. In your own words and understanding, are there any differences in the terms Error, Defect, and Failure?	The Error = is a human mistake. An Error appears not only due to the logical mistake in the code made by the developer A Defect = is a variance between expected and actual results. Failure = is a consequence of a Defect. It is the observable incorrect behavior of the system. Failure occurs when the software fails to perform in the real environment.	https://www.toolsqa.com/software-testing/istqb/error-defect-failure/
3. When should testing stop?	Stop the testing when deadlines like release deadlines or testing deadlines have reached. Stop the testing when the test cases have been completed with some prescribed pass percentage. Stop the testing when the testing budget comes to its end. Stop the testing when the code coverage and functionality requirements come to the desired level. Stop the testing when the bug rate drops below a prescribed level. Stop the testing when the number of high severity Open Bugs is very low. Stop the testing when the period of beta testing/alpha testing is over.	https://blog.testproject.io/2021/06/09/when-to-stop-testing/#:~:text=Stop%20the%20testing%20when%20the,drops%20below%20a%20prescribed%20level.

4. Explain in your own words the terms Verification and Validation	Verification: The process of evaluating software to determine whether the products of a given development phase satisfy the conditions imposed at the start of that phase. Validation: The process of evaluating software during or at the end of the development process to determine whether it satisfies specified requirements.	https://www.arbourgroup.com/blog/2015/verification-vs-validation-whats-the-difference/#:~:text=Validation%20is%20the%20process%20of,that%20the%20software%20meets%20specifications.
5. Explain in your own words the “V” concept of Testing	the main idea behind the V-model is that development and testing activities correspond to each other. Each development phase should be completed by its own testing activity. Each of these testing activities covers a different abstraction level: software components, the integration of components, the complete software system and the user acceptance. Instead of just testing a monolithic piece of software at the end of the development process, this approach of focusing on different abstraction layers makes it much easier to trigger, analyze, locate and fix software defects.	https://www.froglogic.com/blog/tip-of-the-week/the-v-model-in-software-testing/