PART A — (10 × 2 = 20 marks)

1. What is Software Engineering?

2. State few differences between traditional and agile software development.

3. How do you differentiate Functional Requirements and Non-Functional Requirements?

4. What is the use of Data Flow Diagrams?

5. List any 4 Software Design Patterns.

6. What is a Publish Subscribe model in Software Design?

7. Write the steps for debugging.

8. Define Regression Testing.

9. List any tools for Quality control in Project Management.

10. What are the testing tools available in DevOps software practice?