Qn. Explain the steps involved in waterfall model of software development process with the help of neat diagram

Steps in the Waterfall Model:

Requirement Analysis:

Gather and analyze system requirements.

Document the requirements in a Software Requirement Specification (SRS).

System Design:

Convert the requirements into system and software architecture.

Create design specifications like data flow diagrams, ER diagrams, and system modules.

Implementation:

Develop code based on the design specifications.

Translate modules into working programs using programming languages.

Integration and Testing:

Combine all the developed modules into a complete system.

Test the system for defects, bugs, and functionality issues.

Deployment:

Deliver the system to the end user or client.

Deploy the software in the production environment.

Maintenance:

Perform regular updates, error corrections, and modifications as needed.

Handle issues discovered during real-world use.