Q. 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 update, error correction and modification as needed.
* Handle issues disovered during real world use.

Requirement Analysis -> System Design -> Implementation ->  Integration & Testing -> Deployment -> Maintenance