Q1. Write short note on Design phase of waterfall model.

Ans. After the first section is completed and confirmed, it's far the following most crucial phase to be studied as it's miles used for machine design. It helps in specifying software program and hardware necessities for the product layout. It also facilitates within the universal structure of the machine layout. So the requirement specification is typically studied and established in this segment. It is likewise helpful in reworking the SRS report into purposeful design and development of the software product. So we can say that in the designing phase, one is making the overall architecture for the software improvement mission.

 Waterfall phase is a group of requirement analyst professionals studies the various required gear and tricks to effectively broaden the software software program and organized a blue print layout. The device design section enables in specifying hardware, machine necessities and additionally facilitates in defining typical system structure of developing software program venture.This phase targets to convert the requirements accumulated in the SRS into a appropriate shape which lets in further coding in a programming language. It defines the overall software program architecture together with excessive degree and targeted layout. All this work is documented as a Software Design Document (SDD).

Q2. Write short note on Feasiblity study.

Ans. A feasibility take a look at is an evaluation that considers all of a assignment's applicable elements—which includes monetary, technical, prison, and scheduling issues—to envision the chance of completing the challenge efficiently.

Whether a project is viable or no longer can depend upon several elements, along with the assignment's fee and go back on funding, which means whether or not the project generated enough sales or sales from purchasers.

However, a feasibility take a look at isn't always most effective used for projects seeking to measure and forecast financial profits. In other phrases, feasible can imply some thing special, depending at the enterprise and the venture's goal. For example, a feasibility observe should assist determine whether a health facility can generate sufficient donations and investment bucks to enlarge and construct a new most cancers center.

Q3. Write short note on Testing.

Ans. Testing is locating out how properly some thing works. In terms of humans, testing tells what stage of expertise or talent has been acquired. In computer hardware and software program development, testing is used at key checkpoints within the universal manner to determine whether goals are being met. For instance, in software development, product goals are sometimes examined by product person representatives. When the layout is whole, coding

follows and the completed code is then examined at the unit or module degree by using each programmer; at the factor level by means of the group of programmers worried; and at the device degree whilst all additives are mixed collectively. At early or past due degrees, a products or services can also be tested for usability.

At the system degree, the manufacturer or unbiased reviewer may challenge a service or product to one or extra performance checks, probable the usage of one or greater benchmarks. Whether viewed as a product or a service or both, a Web site also can be tested in diverse ways - with the aid of watching person experiences, through asking questions of customers, through timing the glide thru precise usage scenarios, and by using comparing it with other sites.

Q4.Describe Agile Model.

Ans. Agile SDLC model is a combination of iterative and incremental process models with focus on process adaptability and customer satisfaction by rapid delivery of working software product. Agile Methods break the product into small incremental builds. These builds are provided in iterations. Each iteration typically lasts from about one to three weeks. Every iteration involves cross functional teams working simultaneously on various areas like −

- Planning
- Requirements Analysis
- Design
- Coding
- Unit Testing and
- Acceptance Testing.

At the end of the iteration, a working product is displayed to the customer and important stakeholders.

Agile model believes that every project needs to be handled differently and the existing methods need to be tailored to best suit the project requirements. In Agile, the tasks are divided to time boxes (small time frames) to deliver specific features for a release.

Iterative approach is taken and working software build is delivered after each iteration. Each build is incremental in terms of features; the final build holds all the features required by the customer.