*1. What is SDLC*

*Ans.> SDLC is software development life cycle, SDLC is a structure imposed on the development.*

*2. What is software testing?*

*Ans.> software testing is process used to identify the correctness, completeness and quality of developed computer software.*

*3. What is SRS?*

*Ans.> SRS is software requirement specification details the specific requirements of the software that is to be developed.*

*4. What is oops?*

*Ans.> oop is Object Oriented Programming*

*5. What is oops*

*Ans.> oop means object-oriented programming oop 6 types*

*1.object 2.class 3. abstraction 4. encapsulation 5. inhertanc 6. polmorphism*

*6. What is object?*

*Ans.> object: any entity which has own state and behaviour ex pen paper.*

*7. What is class?*

*Ans.> class: collection of object ex human body.*

*8. What is encapsulation?*

*Ans.> encapsulation: wrapping of data or binding of data ex apsule.*

*9. What is inheritance?*

*Ans.> inhertance: when one object acquires all the properties and behaviour of parent classe ex parent child.*

*10. What is polymorphism?*

*Ans.> polymorphism: many ways to performa anything ex overloding, overiding.*

*11. Write SDLC phases with basic introduction?*

*Ans.> SDLC IS is a structure imposed on the development of a software product defines the process for palninig impelmentation testing documentation deployment and on-going maintenance and support. SDLC phases 1 Requirements Gathering: Establish Customer Needs 2 Analysis: Model And Specify the requirements-what 3 Design: Model And Specify a Solution – Why 4 Implementation: Construct a Solution In Software 5 Testing: Validate the solution against the requirements 6 Maintenance: Repair defects and adapt the solution to the new requirements 6*

*12. Explain Phases of the waterfall model?*

*Ans.> waterfall model is the classical software lifecycle models the software development as a step-by-step waterfall betwwen the various development phases requirement must be frozen to early in the life cycle requirement are validated too late 1. requirement 2. analusis 3.design 4. implementation 5. testing 6. maintenance.*

*13. Write phases of spiral model?*

*Ans.> Spiral Model is very widely used in the software industry as it is in synch with the natural development process of any product i.e., learning with maturity and also involves minimum risk for the customer as well as the development firms.*

*14. Write agile manifesto principles*

*Ans.> 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.*

*15. Explain working methodology of agile model and also write pros and cons.*

*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.*

*pros ->is a very realistic approach to software development ->Promotes teamwork and cross training. ->Resource requirements are minimum. ->Suitable for fixed or changing requirements ->Minimal rules, documentation easily employed. ->Enables concurrent development and delivery within an overall ->planned context. ->Little or no planning required ->Easy to manage ->Gives flexibility to developers*

*cons ->Not suitable for handling complex dependencies. ->More risk of sustainability, maintainability and extensibility. ->An overall plan, an agile leader and agile PM practice is a must without which it will not work. ->Strict delivery management dictates the scope, functionality to be delivered, and adjustments to meet the deadlines. ->Depends heavily on customer interaction, so if customer is not clear, team can be driven in the wrong direction.*