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8th batch CSE

Course code: CSI 321

course: Software Engineering.

Ans: to the Q: NO: 01

(a) Ans: Software Engineering is the design Development testing & maintenance of software Application. software engineering Apply engineering principles & knowledge of programming language to build software solution for end user.

(b) Ans: SDLC Activities:

→ communication, this is the first step where the user initiates the request for a desired software product.

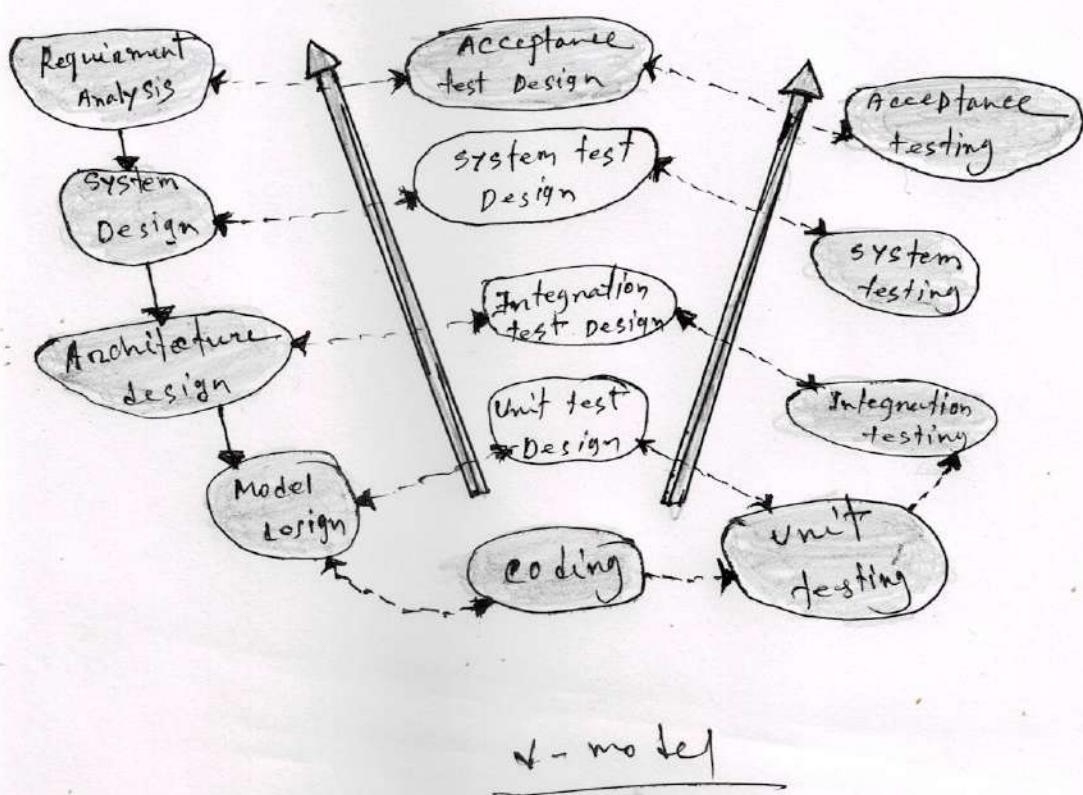
→ Requirement Gathering. The step on which the software development team works to carry on the project.

→ Feasibility study. → System Analysis.

→ Coding. → testing → Integration.

■ Spiral Model: The spiral model is one of the most important software development life cycle model which provides support Risk Handling in HD diagrammatic representation. It looks like a spiral with many loops. The exact number of loops of the spiral is unknown & can vary from project. Each loop of the spiral is called a phase of the software development process. The exact number of phases needed to develop the product can be varied by the project manager depending upon the project risks. As the project manager has an important role to develop a product using the spiral model. The spiral model is a software development life cycle (SDLC) model that provides a systematic & iterative approach to software.

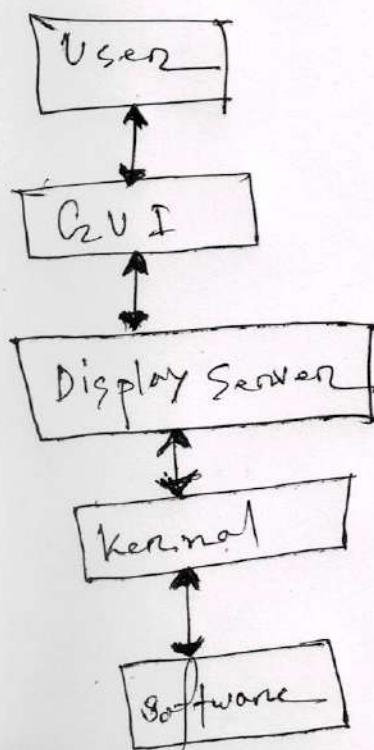
(c) Ans: V-model: The V-model is an SDLC model where execution of process happens in a sequential manner in a V-shape. It is also known as Verification & validation model. The V-model is an extension of water fall model & is based on the association of a testing phase for each corresponding development stage. This means that for every single phase in the development cycle. There is a directly associated testing phase. This is highly Disciplined model & the next phase starts only after completion of the previous phase.



(d) Graphical user Interface : (GVI)

GVI is an interface that allows user to interact with different elements of electronic device using icons & other visual indicators. The graphical user interface were created because command line interface were quite complicated & it was difficult to learn all the commands in it in today's time, graphical user interface are used in many devices such as mobile MP3 players, gaming device, smartphones etc.

→ The below Diagram provides the position of the GVI with respect to the computer system.



Ans: Ques: NO: 02

(a) Ans: Project manager: Project manager in software Organization project & can assigns tasks of software engineering team according to the specification of a task. Software project manager use their leadership skills, technical knowledge & experience to direct their team & ensure software needs client requirement.

(b) Ans: Project manager rule & responsibilities:

A software project manager is the most important person inside a team who takes the overall responsibilities to manage to manage the software project & plays an important role in the successful completion of the project. A project manager has to face many difficult situations to accomplish these works. In fact the job responsibilities of a project manager range from invisible actives like building up team morale to highly visible customer presentation most of the manager take responsibility for writing the project proposal, project cost estimation, scheduling, project staffing software process.

Tailoring project monitoring & control, software configuration management, risks, risk management, managerial report writing & presentation & integrating which elements. The tasks of a project manager are classified into two major types:

(1) Project planning.

(2) Project monitoring & control.

Project planning: Project planning is undertaken immediately after the feasibility study phase & before the starting of the requirement analysing & specification.

(1) Project estimation.

(i) Cost estimation.

(ii) Time estimation.

(iii) Effort " "

(2) Scheduling (3) Staffing (4) Risk management.

(5) Miscellaneous plan.

Responsibilities:

- Knowledge of project estimation techniques.
- Good decision-making abilities at the right time.
- Previous experience managing a similar type of project.
- A project manager must encourage all the team members to successfully develop the product.
- He must know the various types of risks that may occur & the solution to these problems.

Q) Answer: Object of software design: The object of software Design process are correctness, completeness, efficiency, flexibility consistency & maintainability. The object of system design is to create plan for a software or hardware system that meets the need & requirement of a customer or user. This plan typically detailed specification for the system including its architecture components or ~~inf~~ interfacing.

System Design is an important step in the development process of any system, as it serves as the foundation for the implementation & development of systems.

A well-designed system can't help ensure that the system is reliable, efficient, & user-friendly.