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Course – Software Engineering.

Code – CSI 321

Answer to the Question Number – 1

(a) Ans: Software Engineering: Software Engineering is the design Development testing And Maintenance of Software Application. Softwaring Engineers Apply Engineering principles and Knowledge Of programming language to build Software Solution for end User. ~~Soft.~~

Answer to the Question – NO – 21 B

(b) Ans: SDLC Activities:

⇒ Comunication, this is the first step where the user initiates the Request for a desired Software product.

⇒ Requirment Gathering. The step onwards the Software development team works to carry on the project.

⇒ Feasibility Study ⇒ System Analysis ⇒ coding ---.

⇒ testing --- ⇒ Integration.

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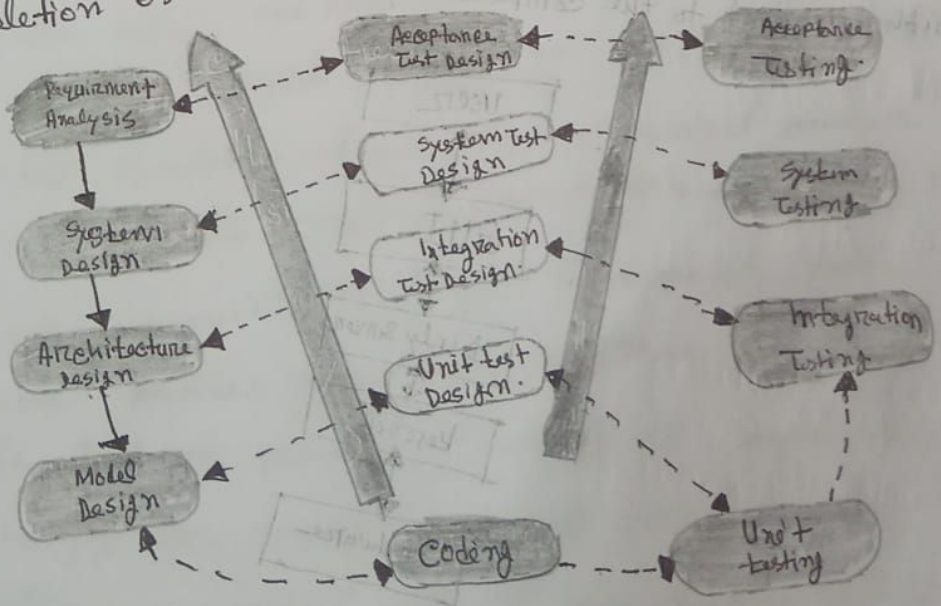
Spiral model:

The spiral Model is on of the most important Software Development Life cycle model which provides Support Risk Handing in its diagramatic Representation, It looks like a spiral with many loops. The exact Number of loops of the spiral is Unknown And can vary from project. Each loop of the spiral is called a phase of the Software development process. The exact Number of phases needs 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 mode. The spiral model is a Software Development life cycle (SDLC). model that provides a systematic And Iterative Approach to Software.

(c) Answer: **V – model :** The v-model is an SDLC model where execution of processes happens in a sequential manner in a V – shape. It is also known as verification and validation Model. The v- model is an Extension of waterfall model And 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 ~~Asso~~ Associated testing phase. This is highly Disciplined Model and the next phase starts only After Completion of the previous phase.

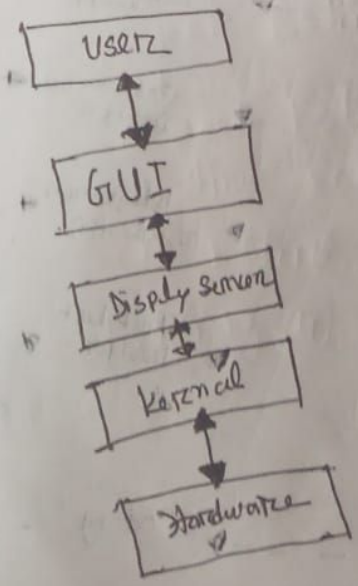


V- Model

(d) Ans: Graphical User Interface: (GUI)

GUI is an Interface that Allows users to interact with Different Electronic device using icons and other visual Indicators. The graphical user interface were created B Because Command line interface were quit complicated And it was difficult to learn all the commands in it In todays time, graphical user interface are used in Many device such as mobile MP3 players, gaming device, Smartphones e.t.c

⇒ The bellow diagram provides the possition of the GUI with respect to the computer system.



Answer to Question No - 2

(a) Answer: project managers: project managers in Software Organization project project and can assign tasks to Software engineering teams According to the Specifications of a task. Software project managers use their leadership skills, tenical knowledge and Experience to direct their teams and ensure Softwar meets clint requirment.

(b) Ans: project manager rule And responsibilities:

A Software project manager is the most important person inside a Team who takes the Overall responsibilities to manager to manager the Software project and plays and important role in the Success full completion of the project. A project manager has to face many dificult situation to accomplish there works. in fact the job responsibilities of a project manager range from invisible Actives like building up team morale to highly visible Customer presentations. most of the manager take Responsibility for writing the project proposal project cost estimation, sheduling, project sa slatting software

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Tailoring project monitoring and control, software Configuration management, risk, & risk management managerial report writing and presentation and interfacing with clients. The task of a project manager are classified in to two major type's

(1) project planning.

(2) project monitoring and control.

project planning:- project planning is undertaken immediately after the feasibility study phase and before the starting of the requirement analysis. And specification

(1) project Estimition.
↓
(i) cost Estimition
(ii) time Estimition
(iii) Effort

(2) sheduling (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 ~~virt~~ various type of risks that may occur and the solution to these problm.

© Answer: Object of software design: The object of Software Design process are correctness, completeness, efficiency, flexibility consistency, and maintainability.

The object of system design is to create plan for a software or Hardware system that meets the Need and requirments of a customer or users. This plan

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typically include detaild specification for the System including its architecture components And interfacing.

System Design is an important Steep in the development process of any system. as it Service as the foundation for the ~~important~~ implementation and deployment of the system. A well-desined system can help ensure that the system is reliable, efficient, and user-friendly.

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