42) Fox what type of Project, data flow diagram (DFD) is 14/5/25 required?

DFD is required for structured or function-oriented projects where the focus is on data movement and procusing.

43) What is sequencing in Use Case Diagram? It refers to the order in which use cases are triggered based on user actions or system events.

44) How to apply inheritance for Object oriented Projects? Inheritance is applied by creating a base class by identifying common flativis across modules, thin extending it using subclames that inhinit and reuse those features.

is alto an store invaria

45) What is testing?

Testing is the process of evaluating a software sightment to identify difects and enouse It neets the specified requirements.

46) Distinguish between Error, Foult, Defect and Failure.

Emon	Foult	Defect	Failure
	the software (lay)		sabected. barbann or Enbann georg
During Development	After cooling, due to error	Detacted during testing	During execution

(3) When and who will do Black Box testing? Performed during the later stoges of testing often white box testing has been performed, by the Software Tester.

(3) List all types of White Box testing.

-> Statement coverage

-s Path coverage

-> Bromch coverage

-> Data-flow coverage

- Path testing

-shoop testing.

- Cyclomatic Complexity.

(A) Define BUA (Boundary Value Analysis).

BUA is a black box testing technique. It is a test case disign method that complements equivalence partitioning, helping to detect evices at boundaries.

50) Can a fault be delangged? Justify.

yes, debugging is figuring out what's coursing a problem which liads to failure. ggs of simulation/wit

E) What is Regulation Testing?

Regursion Testing re-executes a small subset of tests that have already been conducted. It is applied to ensure that no side effects occur. protect of scartle to

52) Define Smoke Testing.

It is an integration testing approach that is commonly used when product software is developed. It is designed as pacing mechanism for time-critical projects.

- 5) When to do Alpha Testing?
 Alpha tisting is done at the end of development, but before the product is released to external users.
- a) why to do Beta Testing?

Beta testing is done to gather real-world feedback from actual users in a live environment. Identifying usability issues and unexpected bugs and modify them before final reliane.

55) What is Cyclomatic Complexity?

Cyclomatic Complicatly of a code section is the quantitative measure of the number of linearly undependent paths in it. back to indicate complexity of a program.

- 56) How to do flow path testing? Flow path testing is done by identifying all independent execution paths in a control flow graph and disigning test cases to cover each path.
- 67) Who is responsible for System Testing? Performed by independent Quality Assurance (QA) team.
- 58) Distinguish between Function and Object Oriented Testings. Function-Oriented Testing Object-Oriented Testing Tests modules functions Tests objects, classes, and individually. interactions. J. Arms Based on functional Based on class hierarchy and object behavior. decomposition
- 59) What is Software Stomdardization?

The state of It is the process of establishing and following defined norms, guidelines, and best practices in software development.

60) Define Software Reliability. It is defined as the probability of failure-free operation of a computer program in a specified convisionment for a specified time.

~1)	How to estimate cost with ZIPF's law?
	Using Zipp's Law, cost estimation is based on the
	Brequency of software components on modules.
	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRESS OF THE PERSON NAMED IN COLUMN TO SERVICE AND ADDRE
	where, a lag (namk)
	your -> bosinon of a win
	Bredmers of rise.
62)	What is Software metric?
	Software metrics are the measurements for computer.
	software It lives in the house in the time
	software. It helps in tracking progress, identifying
63)	hist the disservet as an SEL COM
- 5)	a selection broads of selection.
	> Inital
	> Repeatable ? granted atter and oh of and
100	-> Defined granes por work of private they see -
	- Monaged Judina - il sitter insiturace truckingthin
41	soptimizing has some to some the pringrate bome
04)	Give the need for Six Sigma.
	-> Enhance Customer Satisfaction
prode	-> Reduce Costs -> Eliminate Defects and
6	Variations
(2)	What is the other name for Six Signa ?
	DMAIC (difine, measure, analyze, improve, and control)
(23)	He is manner with a
-,	How to womande works
	D Risk Analysis 1) Risk Identification
	Hoaliment Domedine
67)	What is the advantage of Cat at.
	What is the advantage of cost estimation using functional Point?
	- Commentation
	10000
	emil her frage is reg insummind

(28) Define Delphi method.

It is a structured communication technique used to gather expect opinions and reach a consensus through multiple rounds of questionnoises.

- (a) How to ensure softmare quality?
 - -> Standard development process is followed.
 - arouse bono agued grisci7 a
 - -> Regular testing
 - -s User feedback
- 70) For what type of software; 150 standardization is required?

150 stomdardization is required for critical, large-scale, on commercial software where quality. safety, and interoperability are orusial.

11) When to schedule project time? Project time should be scheduled during the planning phase (SRS), after oblining scape and tasks,

including deadline.

12) What is software maintenance? Justify with purpose.

It is the process of modifying software after deployment to fix bugs on improve performance. Purpose: Ensures the software remains reliable, relevant,

and functional over time.