## STE Assignment 01. PAGE NO. DATE 31/07/20

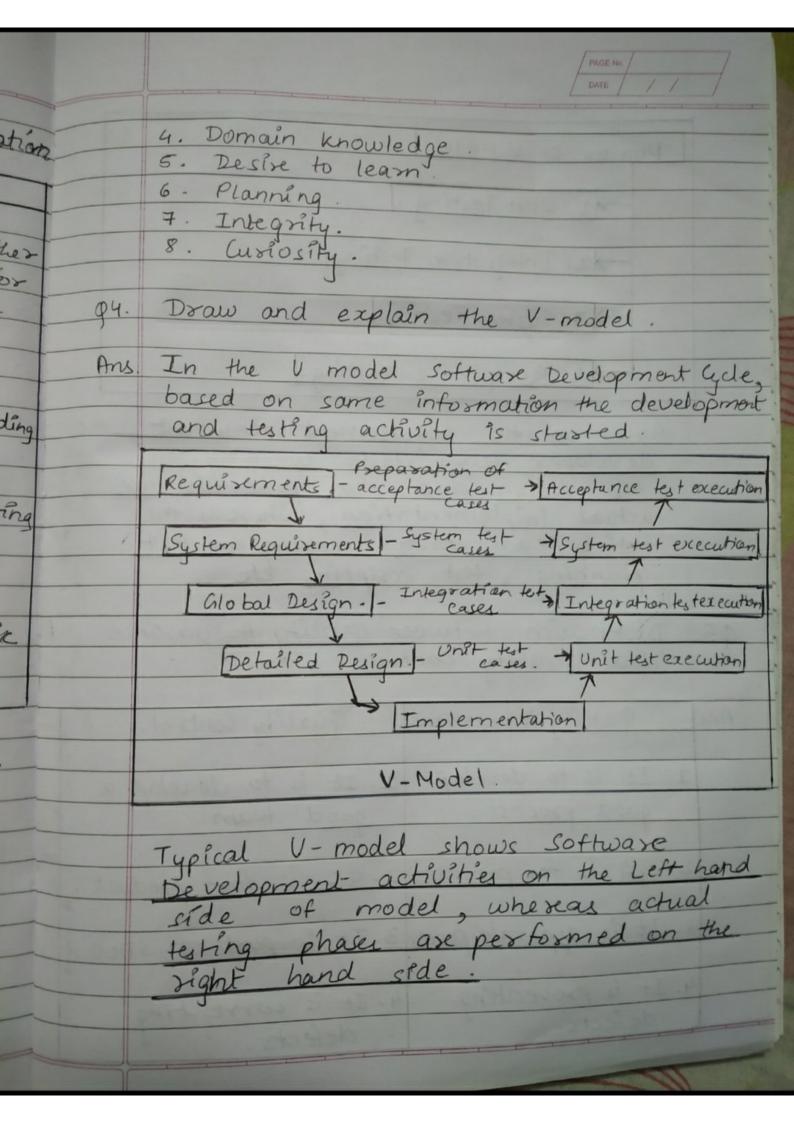
Name: Gaurar Amarnani Roll no. 21

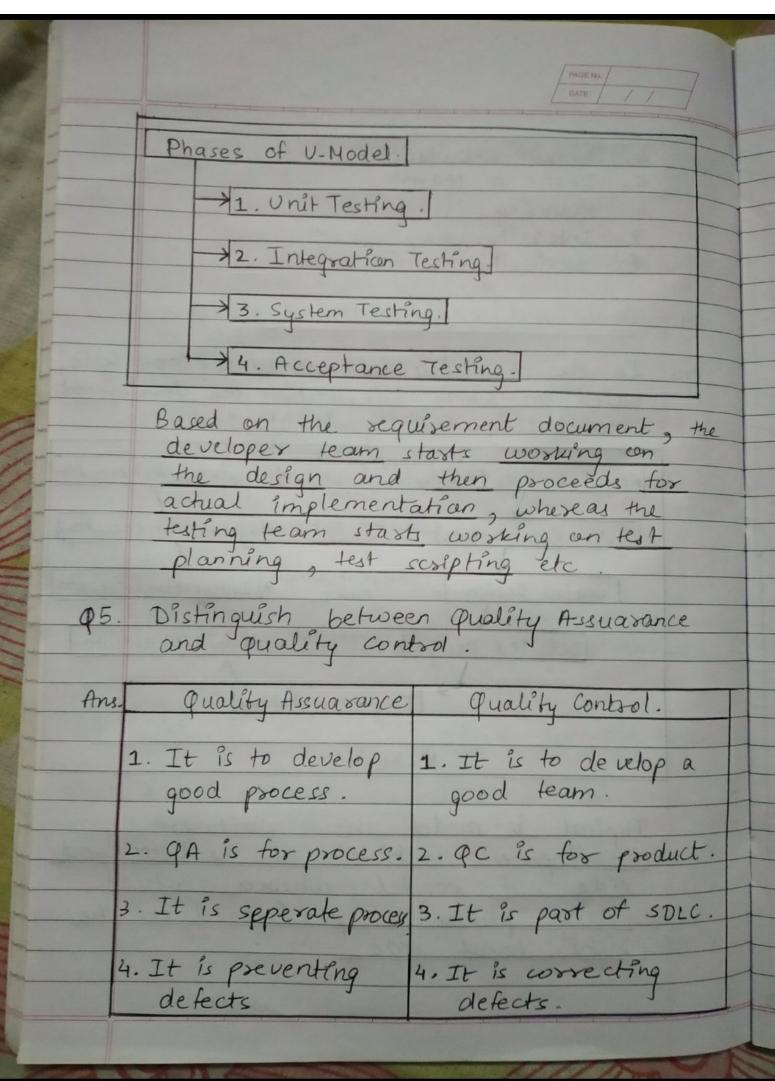
91 List and explain objectives of Software testing.

Ans. Objectives of Software Testing:

- 1. The main objective of Software Testing is fulfilling customer requirements, so firstly understanding what are customer requirements and then ensuring that software works in such manner
- 2. To find defects and issues in the software and fix them before they are encountered by end user.
- To fulfil the BRS that is, Business requirement specification and SRS, System Requirement specification.
- 4. Software testing is to assure that
  the testing is being done correctly
  and hence application is ready
  for use. This helps in gaining
  the confidence of wistomers by
  providing them with quality software

	LAGRA TO THE REAL PROPERTY OF THE PARTY OF T	PAGE No.
02	Different of 11	110°5° 1° 111121
7	Differentiate between	Venn cation & validation
Ans.	Verification	Validation.
3710		
	1. Checks whether the	1. It determines whether
	product is built as	the software is fit for
	per the specified requirements & design	business needs.
Service .	specification.	7,0000
a deline	Continue y requirement	
-	2. Checks "Are we building	2. Checks 6 Are we building
	2. Checks 66 Ase we building the product sight 39	the right product "
	that softened waste	DISTRIBUTION OF THE PARTY OF TH
	3. This is done	3. Is done with executing the software.
	software	se software,
300	ad march and know o	SUPPLIES SUPPLIES
100000	4. Involves all static	4. Involves all dynamic
	4. Involves all static testing techniques.	4. Involves all dynamic testing techniques
	BRS that TO Bus	
-	a had added things	
Q3.	List all the skills	of a Software tester.
	Chella son land la	1 - 200 - 000
Ans.	Skills sequired for software tester:	be coming a good
	SUTTIMUE TOTAL .	- Kara A Par
	1. Communication skil	us.
	2. Technical skills.	al Calman and
	3. Analytical skills.	P PORTE STATE





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Q6. Define Static testing & Dynamic testing.

Ans. Static testing involves verification, whereas Dynamic testing involves Valldation. Together they help improve software quality.

1. Static Testing:

Static testing is a verification activity. Testing of program is done without executing of program.

In static testing, code is not sun to uncover bugs, but to verify by experts to find any flaw.

2- Dynamic Testing:

Dynamic Testing is a validation activity. Tester has Software Requirement Specifications (SRS) to check whether the product is as per user requirements.

In Dynamic testing, code is executed to find bugs, or to confirm that its working well.

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Q7. Define Test case and write fiver test cases for standard calculator.

Ans. A test case is a documentation which specifies input values a expected output and the pseconditions for executing the test.

It is a set of conditions or variables under which a tester will determine whether a system under test satisfies sequirements or work correctly.

5 Test cases for a Standard Calculator:

	T					
	Test	Test Case & St	eps to be	Expected	Actual	Pass/
	case I	1 6	eps to be executed	result	sesult	fail.
			TE HAG	Strong	1 .5	
	ID_1	Test if number (i) cli	ck on the	Number mus	Number	Page.
		is selected onclick num		to selected		
	home	MODE SCHOOLS TO THE	dester 1	- 410-	00 10	
	ID-2	Test if numbers (i) Sele	ect a number	Result	Resultis	Pass.
	stra con	are added correctly (ii) sele	ect (+) sign	must be	correct	
		(iii) sele	ect another	correct		
1		nun	ber	- NI		
l		mariol vol.	but the	- balasa		
	ID_3	Test if sesults (i) sele	ect any no.	Result	Result	Pass.
			ect any sign	must be	is disp	
		, 0-111	ect any	displayed		
			number	on server	on screen	

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TRIFID	Test case	steps	Exp. Result	Adval Realt	Pass/Fail.
30_4	while multi-	digit no. (li) select (x) sign (ii) select	Result no. should	Result no. have (e) with	-
ID-5	schentific calculations work.	(i) Select a no. (ii) Select a scientific sign iii) Select another no.	correct	deplayed.	Pass.

have to perform such more Test cases.

with other signs like (-, x, =) too.

98. Ezplain Inspection, walkthrough and Peer review.

Ans. 1. Inspections:

It is the most formal seview type. It is led by trained moderators.

It involves peers to examine the product.

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The defects found are documented in a logging list or issue log. A formal follow up is carried out by the moderator applying exit criteria.

A The ggats of Inspection:

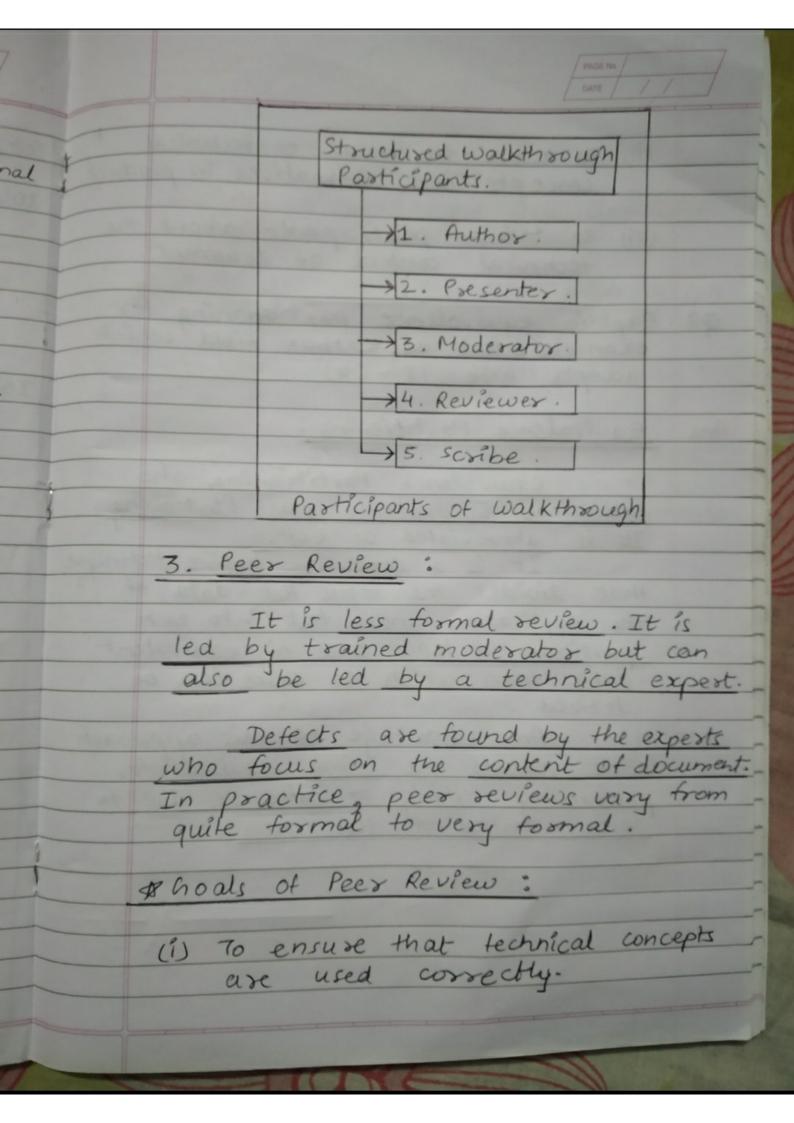
- (P) Improves Product quality.
- (ii) Removes defects as early as possible.
- (iii) Create common understanding by exchanging information.

## 2. Walkthroughs:

A structured walkthrough is a static testing technique performed in an organized manner between a group of peers to review and discuss technical aspects of software development process.

\* Benefits of walkthrough:

- (1) saves time and money.
- (ii) Notifies the project management team about progress of development process.



- (i) To access the value of technical concepts and alternatives in product.
- (iii) To inform participants about the technical content of document.
- 99. Explain equivalence partiolioning for example (test a textbox field which accepts age 18-60).

Ans. Equivalence Partitioning:

Equivalence Partitioning also called as Equivalence Class Partitioning. It is abbreviated as ECP.

It is a software testing technique that divides the input test data of

It is a software testing techniq that divides the input test data of the application under test into each partition at least once of equivalent data from which test cases can be desived.

An advantage of this approach is it reduces the time required for performing testing of software due to less number of test cases.

For Example :

ct.

- 1. The below example best describes the equivalence partitioning.
  - · Assume that the application accepts integers in the range 18 to 60
  - · Valid Equivalence Clase Pastition:
  - · Invalid Equivalence Class Pastition: less than 18, mose than 60, decimal numbers and non-numeric numbers.
- 2. For diploma result analysis.

we can identify 2 valid equivalence Pastition and 2 invalid pastition as shown below:

n Invalid Pastition Age 60-100

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example.

(Pass word field that accepts 6 character minimum and 10 characters maximum)

Ans. Boundary Value Analysis:

Boundary value analysis (BVA) is also ealled boundary condition data testing and is based on testing at the boundaries between partitions.

Values on the minimum and maximum edges of Equivalence Partition are tested. Since these boundaries are common locations for error that result in software faults they are frequently exercised in test cases.

For Example:

If we have a password field which can intake 6 characters min and 10 characters max,

Invalid Pastition	Valid Partition	Invalid Pashition
5	6-10	11 and above

