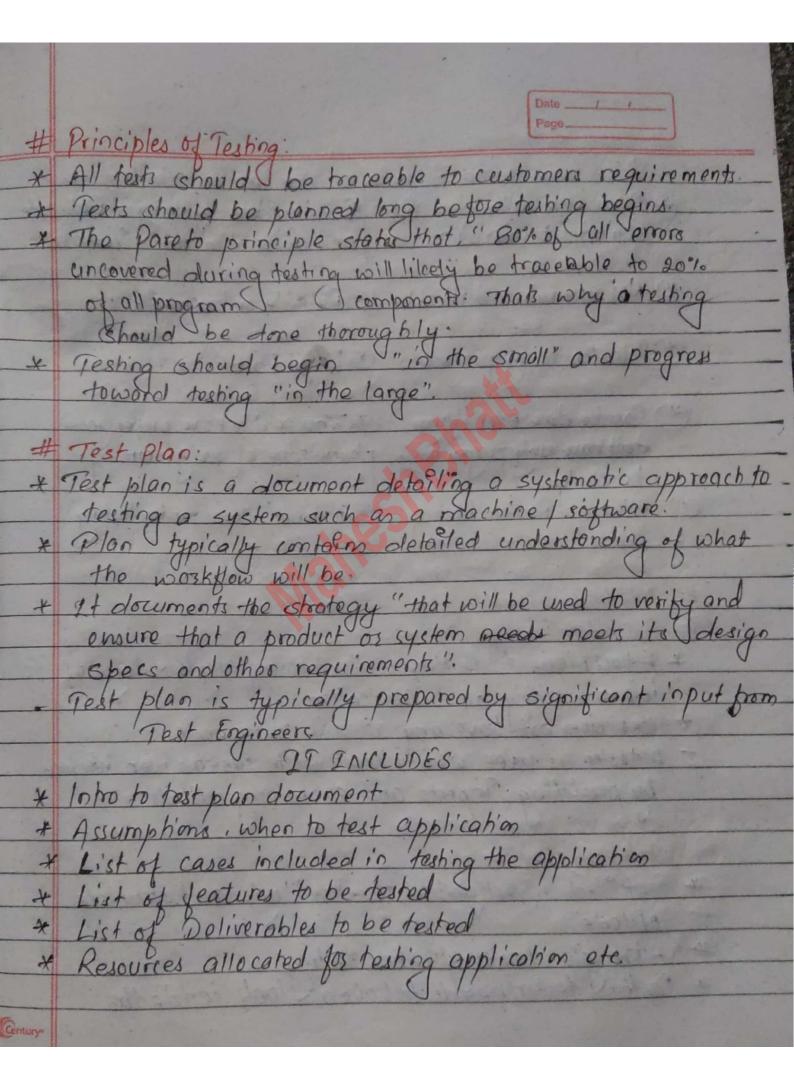
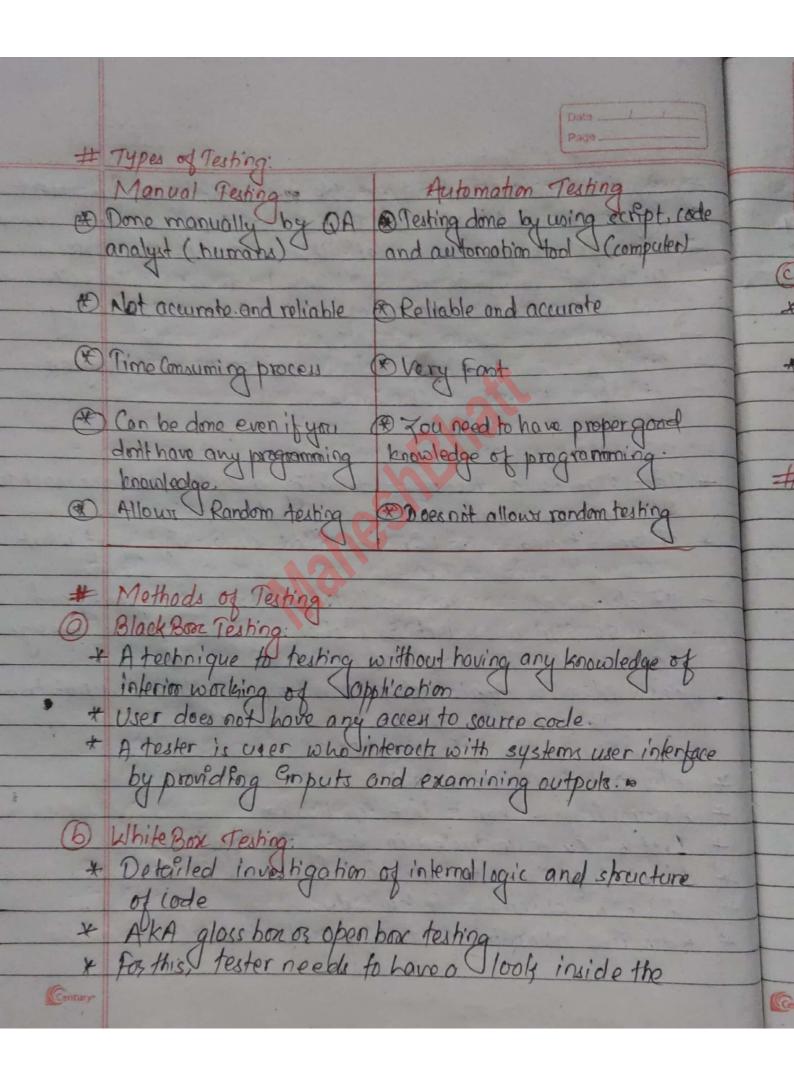
Unit 8	Software Quality Assurance and Pesting 5TH
	Introduction
	Quality is generally means to be a good thing!- Practically, the quality of system should be reached to procise and maintainable
4	Practically, the Quality of system should be
	sague, robust, procise and mintainable
	if soe don't stay careful the quality of
	system will be vague, undefined.
als -	Testing is an iterative process that is carried out
	En Conjunction with implementation.
-	Take monures to check quality, ber to monce,
	reliability etc. before butting it into widespread-
-	It is the most common sway of checking, ina
-	it meets its specification and Idoes what the
Similar	customer wants.
- 3	WHY TESTING:
	To improve quality
	To verify and validate  For reliability estimation
	For reliability estimation
The state of the s	
#	Objectives of Testing:
-	To demonstrate to the developer and customer
	that the s/w meets requirements.
WAR WITH	To discover faults or defect on the s/w where
	the behaviour of the s/w Gs Gneomet,
	To discover faults or defects on the spin where.  The behaviour of the spo as an earnect,  underironable or does not confirm to
	Spocification.
1000	The state of the s
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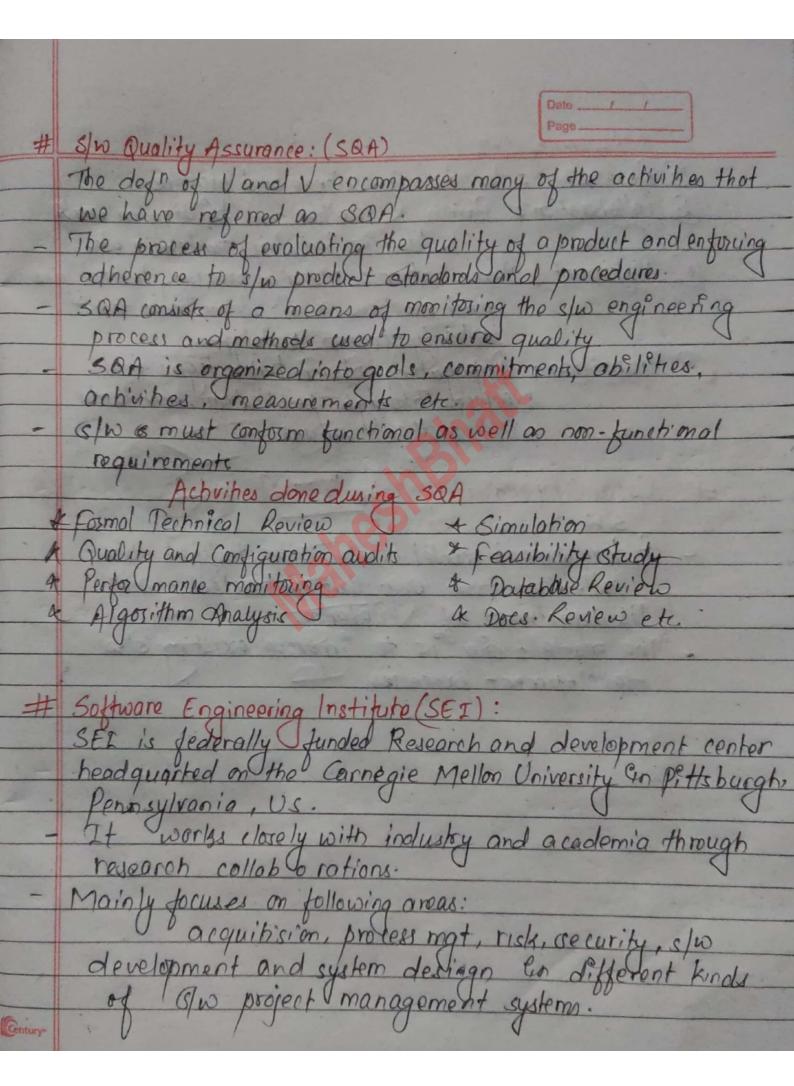


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	0. 1. 1. 0. 1. 1. 0. 1. 1.
	Bourse code and find out which unit of code is behaving in appropriately.
-	in appropriately.
6	Com Day (D)
	Grey Box Testing
*	Galand and test the opp. with limited knowledge of the
	A technique to test the app with limited knowledge of the Governor workings of app.  Here, the more of the "term" you know, the better corries a lot of weight while testing on app.
अ	lot of wains to will the time on a about
	Tot of weight white teshing an app.
#	Levele of Testion:
	Levels of testing Encludes different methodologies that can
	be used while Conducting slip testing.
	Levels of Testing:  Tovels of testing Encludes different methodologies that can be used white Jeonducking sto testing.  (a) Functional . Onlon- Functional . Testing
	(A) Functional Testing:
*	Based on the spess of eluthat is to be tested
+	Tested by providing input and then result are examined that
1	need to conform the functionality it was intended for.
*	Tested by providing input and then results are examined that need to conform the functionality it was intended for Performed in complete, integrated system to evaluate
	cysterns compliances.
6	Types
0)	Unit Testing:
	performed by developers before setup is handled over to testing
	Deland be been him downlamm who are combine on that
	Performed by respective developers who are working on that particular unit of source code.
Gentury-	- particular only of coale coale

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	Main goal is that it isolates all units and show that each part of program are correct in terms of their functionality.
(6)	Integration Testing: Two or more interconnected parts (units) are used to testing
e	Two or more interconnected parts (units) are tured to testing and checked if they function correctly together.  Bottom up integration tosting begins with unit testing followed by test of higher level combinotions of units called modules.
-	Top Down Integrated Testing Es vice versa.
(0)	Testes whole system as one at once
-	All the components are Gotegrated and then tested to see it that meets Quality Standards.
	The opp. is test in an envo which is very close to production envo where app. will be deployed.
(d)	Acceptance Testing: Most imp. and conducted by QA team who looks if the app. meets intended specs and satisfies the
	clients requirements.  (i) Alpha Teshing
*	First stage of testing done by teams (developer PDA) Thecks broken links, spelling mistakes,
Convey	cloudy directions etc.
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	Date
	(ii) Beto Deshing
-	Users (selected one) tests the comple of the application.
-	AKA pre-release testing
-	Focusas m:
	Dusers run, install the app. and Gend Their Jeedbacksu  Typographical errors, elso crashing problems etc.
	Drypographical errors, ebo crashing problems etc.
(3)	Non-Functional Testing:
-	Based upon the testing of opp. from its non-functional attributes Involves the testing of s/w from the requirements which are non-functional in nature related but important as well
-	Involves the testing of s/w from the requirements which are
	non-functional Vin nature related but important as well -
	such as performance, security, user, interface etc.
0	Performance Testing & Usability Testing OSecurity Testing
(0)	Portability Testing
#	Text Strategies
-	Test strategy for slw testing must arramodate low level tests that
	are necessary to verify that a small source code segment how
	been completly simplemented as well as high level tests
	that validate major functionalities.
-	that validate major functionalities.  A strategy must provide guidance to the practitioner and a  set of milestones to the manager.
	ast of milestones for the manager.
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	the state of the same of the s

		Date - 1
	Strabai : Aromant to Dati	Page
-	Totaling booker that came	Soment level and worsky outward entegration of entire computer
	Itowards the	entegration of entire computer
	lacard suchan	
-	Different testing technic	que are appropriate at different
_		
	Testing and debugging of	are different each vities
-	Make a distinction Ob	move the conflicts of interests.  The different exhibities  we refication and
	I hali alaila ma	nolV)
14	Verification V	Validation
	Includes checking does,	Includes testing and validating
	design, codes & program	the actual product.
	It is about toution	It is dynamic testing
1	It is static testing	
	No execution of any code	Code & executed
	7	Methods of validation are Black
	Methodo of verification are reviews Prospections and	Box White Box and Non-Punchional
Carlo Braza	desk cherting.	Pestigor
Charles !	Jan	Parties too alone II.
	QA team does it.	Testing team does it.
0 to 12	Comes before volidation.	Comes after verification.
	01130	
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	Date
	Missions of SET
6	Research: In advancing science and practice
6	Collaboration: Bring Stogether and building on works
60	Jound of Godesky, acodemia etc
0	Devlopment & Demonstration: Maturing promising technologies
4000	and practices and demonstrate their
0	uhility through prototypes
(d)	Tronsition: Propagating proven technologies and.
1	practices through publication, standards
	2 other vonues
#	Capability Maturity Model [CMM]
	5/w ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (
_	Adevelopment model created after study of date
	Adevelopment model created after study of date collected from org. that contracted with
	Us department of Defense
-	The models dim is to improve existing s/w development processes
	development processes
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