AMEY B 50 Amey Date: QEA Explain Sin version control in Detail Anss Software (onligaration Management (scm)

— It is a software engineering discipline consisting of standard processes and techniques often used by organizations to manage the changes introduced to its software products. Som helps in identifying individual elements and configurations, tracking changes and ression selection SCM is known as software control management. scm aims to control changes introduced to large Complex software systems through reliable version selection and version compol Version Control. Software version control is a system or tool that captures the changes to a source code elementi files folders images or bingries. - A version control system (also known as a Revision Control system) is a repository of files, often the files for the source code of comparer programs with monitored access. Every change made to the Source is tracked along with who made the change why they made it, and references to problems fixed or enhancements introduced, by the change Version, control systems are essential for any form of distributed, collaborative development. Whether it is the history of a wiki page or large software development project the ability to track each change as it was made, and to remove changes when necessary can make all the difference between well managed and controlled process and an uncontrolled first come first served system.

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- Combiner p versions of	rocedures an	d tools t	o manage	the different
versions of	configuration	opleciz		J
software pr	trol systems	require th	e following	capabilities.
software pr - Version con (1) Project Re - Stores	pository 11 relevant	configuration	n objects.	
		· A		
2 Version Mo - Stores (enables versions)	ragement (a	pability	o figuration	object.
- Stores	all versions	to be	palls from	past
(enables	919 40:3:07			
464210113)	,	Ţ ·	
	and const	ouch a sp	ecite sor	700416
4) Issues (bug) - Enables Outstanding) tracking team to re	capability	track sto	itus of
Outstandi	19 issues	tor each	3,1,19	
- Uses a sy includes c	omponent hi	erarchy a	nd compo	nent brild
order. C	onstruction	rules ven	ification	rules)
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AMEY B 50 γουνλ Q61 Risk - Risk is an expectation of a loss, a potential problem that may or may not occur in the future It is generally caused due to lack of information control or time. - A possibility of suffering from loss in software development process is called a software stake Risk Analysis Risk analysis is process that helps you to identify and manage potential problem that (ould undermine key business initiatives or projects. However, it can also be applied to other projects outside of bysiness such ou To carry out risk analysis you must find identify the possible threat that you face Then estimate their likely impacts if they were to happen and finally estimate likehood that these threats will materialize Risk analysis can be complex as you will need to draw on detail information such as project plans. financial data, security protocol and other relevant informations However it is essential planning tool and one that could save time, money and repulation

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@6B Differentiate between white	box and black box testing.			
Anc:				
White Box Testing	Black Box Testing			
Tt is a way of testing the software in which the tester has knowledge about the internal structure or the code or the program of the software	O It is a way of software testing in which the internal structure as the program or the code is hidden and nothing is known about it.			
2) It is mostly done by software developers	2) It is mostly done by software testers			
(3) Knowledge of implementation is required	(3) No knowledge of implementation is needed,			
(4) It is the inner or the internal software testing	a) Tr can be referred as outer or external software testing			
S) It is structural test of the software	(3) It is functional test of the software			
6) This type of testing of software is started after detail design document.	(a) This testing can be initiated on the basis of requirement specifications documents			

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7	It is mandatory to have knowledge of programming	(a) No knowledge of programma
8	It is the logic testing of the software	(3) It is the behavior testing of the software
9	It is generally applicable to the lower levels of software testing	1 Tt is applicable to higher levels of software testing
(10)	It is also called as	(10) It is also called as Closed testing
11)	It is most time	(1) It is least time Consuming
	It is suitable for algorithm testing	(12) It is not suitable or preferred for algorithm testing
(3)	Data domains along with inner or internal boundries Can be better tested.	(3) Can be done by bright and error ways and method
(4)	Example: by input to Check and verify loops	(4) Example: Search something on google using keyword.
(Z)	Types of White Box Testing A. Path Testing B. Loop Testing C. Candition Testing	A. Functional Tresting B. Non-functional Testing C. Regression Testing