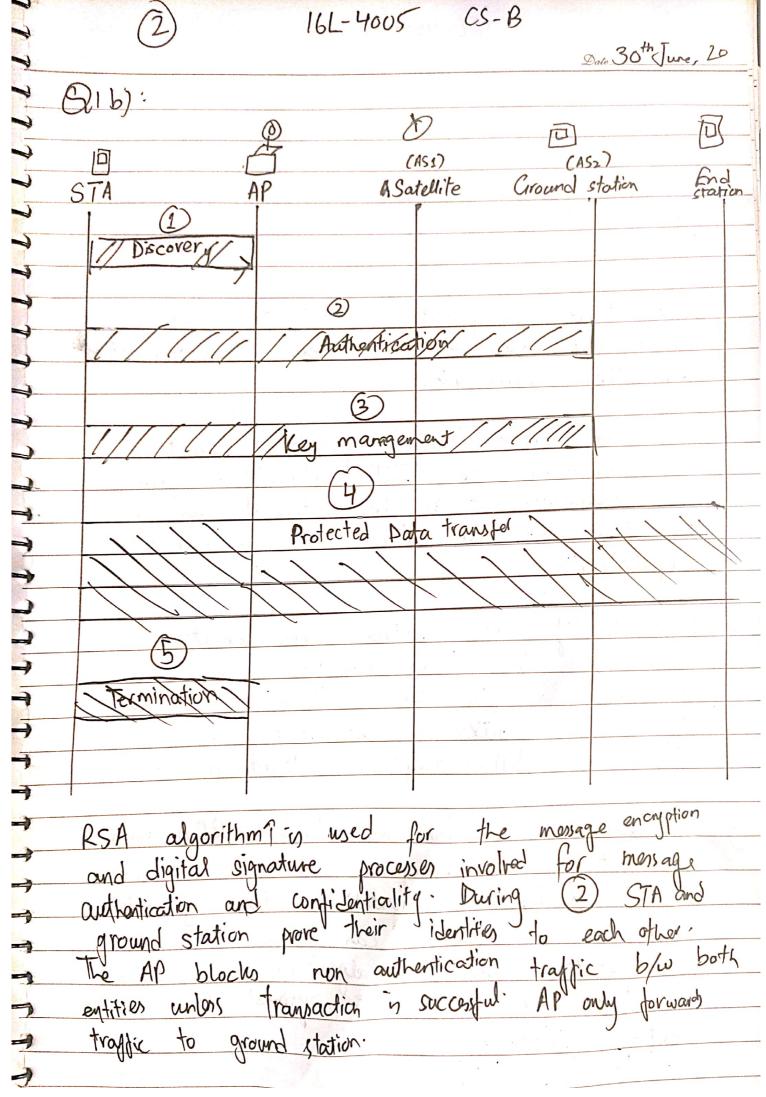
Qı	a = sender b= receiver	16L-4005 CS-B
	PRA V SI > Z	
		E[PRa,HCOT] M S-3 (3)D-3 complete HT DP
	H: Hash function Z = ZIP algorithm	Compare
9		





16L-4005 CS-B

to save computation Same reason on the veason for like compression algo.

be done to increase afficiency

may just increase computational problems.



Answer (s):

OZa.

Planning

Security awareness training

The sessions allow the project members to have a

basic knowledge about the security threats and creates a

set mindset for the future activities.

2) SDL discovery

By having a thorough plan of the SDL, it ensures the fact that the team is going to tackle the issues as early as possible.

Requirement

3) Specify security requirements.

Having a list of security requirements helps to easily identify and fix the suspected non complicant areas of the project.

4) Specify abuse cases

If helps one to think like an attacker and

helps the members to Stay a step or two ahead

of the attach.

Threat identification and Risk analysis

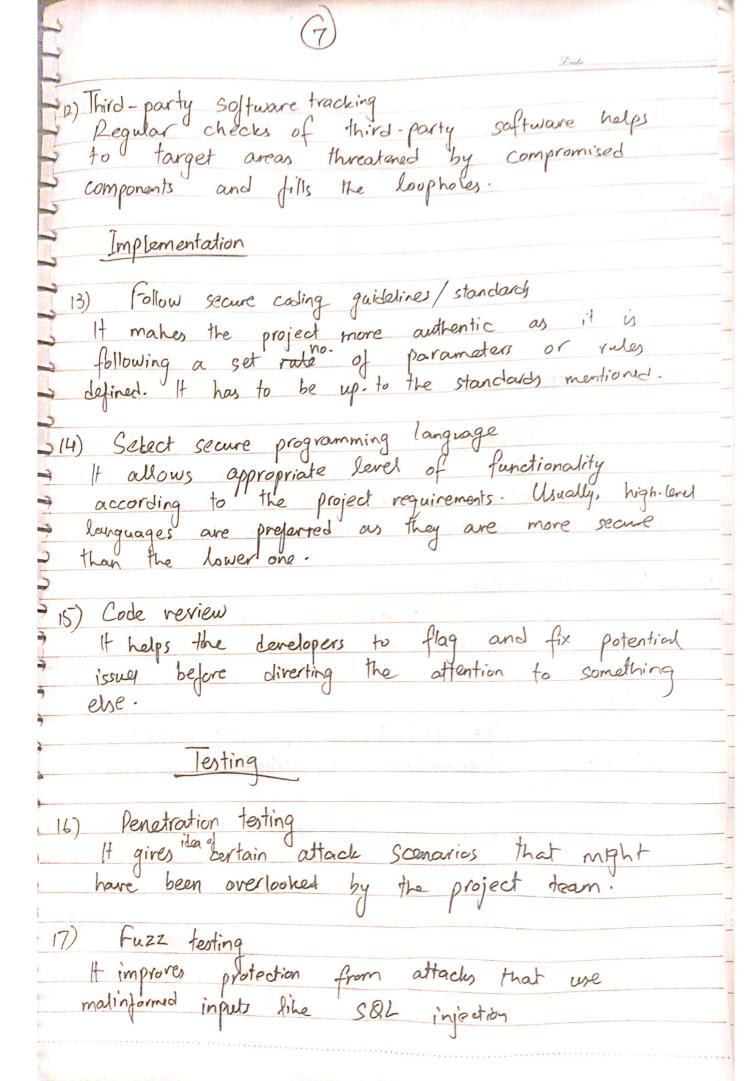
If gives a better idea of the threats on now
likely it is going to succeed.



	6)	Date 30 June, 2
6) Select appropriate security This is to coter the se making sure it does not giving a false sense of	mechanisms ecurity vegu add a security	irements new valnerabing
7) Assers security index If gives the level of one has proposed Hence, understanding of the exists	security of it gives ing and po	the requirements a clear tential vulnerability

8) Perform inspection It gives a better idea of the whole requirements that include functional, non-functional and security requirements. It might tell if there's anything still need to be done.

- 9) Architecture Risk analysis It ranks the technical risks on the basis of severity. It lets the team know about certain flows that may allow attacks to succeed with help dependency and attack analysis.
- 10) Threat modeling It uncovers the potential threats early on decreasing the associated costs and providing a basis for the future vespouses.
- 1) Perform design inspection
 If helps to remove vu vulnerabilities and makes



10) Tartino	olan f	rmation			
(f max	ila the	basis	for	formally	testing
any o	f the	software	produ	d.	

19) Make test cases

Testers have a clear picture of what needs to

be achieved. It helps in convincing quality of

product

Maintenance

- 20) Have a response plan

 It gives idea to the incident team of the security breaches that may occur It helps in repairing the breaches if executed correctly.
- 21) Environment management

 Security monitoring conors the entire system
 therefore it improves overall security of the project
- 22) Perform rework

 If protects the project or app from newly
 discovered vulnerabilities by reviewing the
 previous phosps.

Q2b):

It is a clear fact that removal of bugs and errors or any kind of vulnerability should be in the earlier phases of the SDLC as it is more cost effective. The one I may skip are:

- fuzz testing -> (We of automated tools are expensive)

- Third-party software tracking -> (Additional need might just increase crus cost)

- Penetration testing -> Source as fuzzing. Explained below.

Since the budget is and in half, we may not have the expense to buy the static tools for the aforementioned techniques / activities. Also, it is more expensive to remove defeats later on and as we already have budget constraints. Extra software costs are just going to increase our burden financial burden even more. Therefore, these additional set