166-4010 McWajahat Ali Khon day / date NS- Final Exam E[PRo, H(M)] > For authentication hashing would be For confidentiality asymmetric encryption For hashing SHA-2 would be used. This is because that SHA-1 has already been broken there are concerns about its Biro

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	sale like AP AS ground stateson
	cotrany >
	Authents cation ->
	key management ->
B TEN LOS	pata transfer)
	Erminese >
01.5	
22 (0)	As now the computation has been halved so
	instead of RSA, AFS can be used for
	The key that will be generated by AES can
	The key that will be generated by this can
	then be encrypted by RSA for greater. Security as well as heaping on find mind
,	the computations resources. One more thange that
	Can be done of that instead of SHA-2,
	SHA3 can be used that is not only much
	more secure than 54A2 but also much faster.
	Also there is compression being done that
	how need not to be done as now imited computation
	resources que available.
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Q200 For Requirements engineering.	8
O specify functional requirements employing use cases -To know the requirements in depth looking at each entity in the system property.	0 00
2) Specify abuse cases and model throats - To know before hand what are the possible threats so to be ready to tackle them at any moment.	0000
- It is important as we should know before hand	0 0
that how much damage couch threat con rance	0
9 Specify security requirements to mitigate threats - It is important as to prevent those threats some requirements are needed	0
5 Select security mechanisms for security requirements - It is important as to know which mechanisms will be used for mose security requirements chosen	
6) Speaky functional requirements for selected security mechanisms — To make sure those mechanisms are implemented properly	
- To get a value of how secure the system is to be sure if more work is needed or not in The cecurity. Biro	
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(8)	Perform inspections on the completed requirements specifications
	-To Check if the speniscetion are correctly getyp
	For Design Phase
9	Construct detailed design
	- To know the system to detail to alless the requi-
19	Person derry inspections
	- To know or identify any security vylneratilities in the
86.	
(D)	- To remove the defects in design the street in previous
	step.
1	
(2)	- To be sure if the design insections is required.
	towards the next step.
	Design specification- based embedded security monitor
(13)	- To monder any security breaches or threats based upon
	the design to quickly fix it
AD)	For Implementation, Security and Maintenance Phase
(4)	Select a secure programming language.
	-To be sure that programming lenguage not course to be a threat Piro
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(1) For Main tenance Phase

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Observe softwares behaviour for deviations from specifications
- To check if any vulperans live exist D Lorase vulnerations for identified devations

- To remove them they need to be located first (2) perform remore by remove vulnerabilities - Important as to be sure that the software does not contain any vythershifties or threats Biro

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M. Wajahat Di khar day/date 020 The activity of access if another round of design inspections is required is not needed if he budget B cut in half. This if is because one design inspection is enough as in previous steps enough requirement questient have already been specified that we already reduce any threats, and that we still lest can be cought in further Steps when testing and montaring is being dono Second the activity that I can be removed is that to select a secure programming language, This artivity to not the most important one as even if the programming language is not seeme further story that include testing and fixing & intrerchities con Lake care of it. Another activity be removed is that of unit testing as integration and other types & testing are already done and any differt can be caught to those