Q1\

Secure communication between two end from sender until reach receiver and main goal as follow :

1. Integrity : message send and receive without change the content
2. Authenticity : how access this massage only sender and receiver only cause of that encryption require while send and decrypt require to read
3. Privacy: make sure massage delivered to right person .

Q2\

|  |  |  |
| --- | --- | --- |
|  | Hashing | Digital Signature  |
| Integrity | If key successful decryption key is fine otherwise isn’t  | If signature is match fine otherwise isn’t  |
| Authenticity | By key shared from sender to receiver only can decrypt message otherwise no one can  | If the receiver can only able to see the message via signature match to private key  |
| Privacy | Encrypt message from sender and require to read it require to had key  | Make sure data is secure via send public key and received private key  |

Q3\

|  |  |  |
| --- | --- | --- |
| # | Incident  | Severity level |
| 1 | Sharing classified customer information such name or ID number ...etc with anybody  | Critical  |
| 2 | Price offer shared with customer  | Positive  |

Q4\

Appreciated with employee his transparency and loyalty also , and try to change process to fix this and sure isn’t happen again otherwise each employee will use this treat for his interest.