Mayank Joshi
Role No - 1121083 (04)
BCA 'B' 6th Sem

Information Security and Cyber Laws

MCQ:

1. Asymmetric key encryption with sender public key.
2. Spyware
3. An authentication of an electronic record
4. Cyber laws
5. Only on alphanumeric
6. Idea is same . title is different .
7. Checksum
8. The identity of character is changed while position remains unchanged.
9. Both b and c .
10. None

Q. 1.

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Three security aspects of Google Account :

1. **Built-in security.**

Your Google Account automatically protects your personal information and keeps it private and safe. Every account comes with powerful features like spam filters that block 99.9% of dangerous emails before they reach you, and personalized security notifications that alert you out of suspicious activity and malicicious websites.

2. **Security checkup.**

The simple tool gives us personalized recommendations to help keep our account secure. It helps to remove risky access to our data. This includes apps, connected devices, account permissions. and other things. The Check-up page will also give us an overall heath of our account by green checkmark or yellow or red exclamation point, based on how many items need to be taken care of.

3. Password Manager -

Our google account comes with a built-in password manager that securely saves our passwords in a central place only we can access. When we revisit a site with a stored password, google Password Manager will automatically fill in the password details. This way we don't need to keep a track of different passwords when we use across the internet.

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Q.4.

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```
import math, random
def generateOTP ():
    digits = "0123476789"
    OTP = ""

    for i in range (4):
        OTP += digits [math.floor (random.random()
                                      * 10)]

    return OTP

if __name__ == "__main__":
    print ("OTP of 4 digits:"; generateOTP ())
```

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Q.5.

```
cipher =''
string = 'Attack from North'
def encrypt ()
    for char in string:
        if char = = " ":
            cipher = cipher + char
        elif . char.isupper ():
            cipher = cipher + chr ((ord (char) + 3-65)%
                                   26 +65)
        else:
            cipher = cipher + chr ((ord ( char) + 3 -97)%
                                   26 +97)
    return cipher

print (" Original string", string)
print ("After encryption", encrypt ())
str = cipher
def decrypt ()
plain = ''
  for char in str:
```

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```
if char == " ";
    plain = plain + char
elif char.isupper ():
    plain = plain + chr((ord (char)- 3 -65 )% 26+65 )

else:
    plain = plain + chr ((ord ( char ) - 3 -97) % 26+97 )

return plain

print ("cipher string ", str )
print ("After decryption", decrypt )
```