Name - Vikas Bisht
University Roll - 1121164
Sub - Info. Security & Cyber Laws
Date - 15/06/2021

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MCQ Solution :—

1) Asymmetric Key encryption with Sender public key
2) Spyware
3) An authentication of an electronic record
4) Cyber Security
5) Only on ASCII coded data
6) All
7) Hash Value
8) The identity of character changed while its position remains unchanged.
9) To make even no. of letters.
10) Total length of word.

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1) Ans) Three security aspect of the google account :-

Step 1 :- Go to Security checkup to get personalized security recommendation for your google account including :-

1) Add or update account recovery option:
- your recovery phone no. and email address are powerful security tools. This contact info can be used to help :-
- Block someone from using your account without your permission.
- Alert you if there suspicious activity on your account.
- Recover your account if you are ever locked out.

2) ~~Step 2~~ Step Verification help. Prevent ahacker from getting into your account, even if they steal your password. To avoid common phishing technique associated with text message codes, Choose a stronger second verification step.

- Security keys (Most Secure verification step)
- Google Prompts (More Secure than text msg (code)

Step 2:- Update your Software

- if your browser, operating system, or apps are out-of-date, the software might not be safe from hackers. Keep your software updated to help protect your account.
- Update your browser:- Make sure you're using the latest version.
- learn how to update Google chrome.
- Update your OS:- Make sure you're using the latest version of the OS on your device.
- Update Android device - learn how to check and update your android version.
- Update chromebook.
- Learn how to update your chromebook's OS.

Step 3:- Use Unique Strong Password:- Its risky to use the same password on multiple site. If your password on one site hacked, your other account can get hacked too, Use diff. Password for diff. websites.

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Ans 4) Python :-

4 digit Numeric OTP :

```
# import library
import math, random
# function to generate OTP
def generateOTP():
    # declare a digit variable
    # which store all digits
    digits = "0123456789"
    OTP = ""
# length of Password can be change by changing
    # value in range
    for i in range(4)
        OTP += digits [math.floor(random.
                    random()*10)]
    return OTP
```

```
# Driver Code
if __name__ == "__main__"
    Print ("OTP of 4 Digits :", generate OTP())
```

Output

```
OTP of 4 Digits : 5491
```

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Sub - Info. Security & Cyber Laws (5)

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5 Ans :- Encryption Using Caeser Cipher :-

```
def Encrypt (string):
    Cipher = ' '
    for char in string :
      if char = ' ':
        Cipher = Cipher + char
      elif char.isupper ():
        Cipher = Cipher + char ((ord(char) +
                 3-65) % 26 + 65
      else:
        Cipher = Cipher + chr ((ord(char)
        + 3 - 97) % 26 + 97

    return Cipher
text = "Attack from North"
Print ("After Encryption :", encrypt (text))
```

decryption Using Caeser Cipher

```
def decrypt (String):
    plain = " "
for char in string:
    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

text = "                "
print ("after decryption:", decrypt (text))
```