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Section - 'c'
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Subject Name - Information Security & Cyber Laws
Practical

MCQ

1) PGP Uses -

Ans:- Asymmetric Key encryption with Senders public Key

(2) Keyloggers are a form of

Ans:- Spyware

(3) A digital Signature is

Ans:- an authentication of an electronic record

(4) "NETIQUETTES" deals with

Ans:- Cyber Security

(5) Encryption Can be done

Ans:- only on ASCII Coded data

(6) ..... all does not Come under the Copyright law infringement

Ans:- All

(7) MD5 is a .....

Ans:— Hash Value

(8) In affine Cipher—

Ans:— The identity of the characters is changed while its position remains unchanged

(9) The reason behind appending 'x' in playfair cipher is —

Ans:— both b and c

(10) Module m taken as 26 in substitution Cipher because of .....

Ans:— possibility of replacement

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Q01. Ans:- Three Security aspects of the Google account.

Step1- Go to Security Checkup to get personalized Security recommendation for your Google account including.

add or update account Recovery options your recovery phone number 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's Suspicious activity on your account.

Recover your account if you're even locked out.

2 Step Verification Helps prevent a Hacker from getting into your account, even if they steal your password. To avoid Common phishing techniques associated with text message Code Choose a Stronger Second Verification Step.

Security Keys (Most Secure Verification Step)
Google prompts (More Secure than text message Codes)
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 update to Help protect your account
update your browser
Learn How to update Google chrome
update your operating System
Make Sure you're using the latest version of the operating System on your device or Computer
update android peuices.
Learn How to check and update your android version
update chrome books
Learn How to update your chromebook's operating System.
Use Unique Strong password.
it's risky to use the Same password on Multiple Sites. if your password for one site is Hacked it Could be used to get into your accounts for Multiple Sites.
Make Sure to Create a Strong, unique password for each account.

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Q.4:-

```
# 4 digit Numeric OTP
# import library
import math, random
# function to generate OTP
def genrate OTP ():
    # Declare a digits variable
    # which stores all digits
    digits = "0 1 2 3 4 5 6 7 8 9"
    OTP = " "
    "length of password can be changed
    "by changing value in rang = "
    for i in range = (4)"
        OTP += digits [math.floor(random.
                random() * 10)]
    return OTP
# Driver Code
if ... name ..... main ...:
print (" OTP of 4 digits", genrate OTP())
```

output

OTP OF 4 digit : 3211

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Qo5. 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 ( Cord Chor) + 3 - 97)
        % 26 + 97
return Cipher
teat = " Attack from North"
print = (" after encryption ;" encrypt ( teat) )
```

decryption Using Ceaser Cipher:-

```
def decrypt (String);
    plan = " "
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))
```