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Subject :- Information Security

End Sem Practical

MCQ Answers

Ans 1 A symmetric key encryption with senderpublickey

Ans 2 Spyware

Ans 3 An authentication of an electronic record

Ans 4 Cyber Security

Ans 5 only on ASCII Codedldata

Ans 6 All

Ans 7 Hash value

Ans 8 The identity of the Characters is chaged while its position remains unchanges

Ans 9 to make even no. of letters.

Ans 10 total length of word.

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Descriptive

Q1 Find any 3 Security aspects of the Google account.

Ans1 A Google account is the key to accessing all of Google's product and service, many of which are free. Signing up for a google account is a quick process, but need to give out some personal information. So the main objective is to Control the information for Google account folder

(A) Check Google Privacy Policies.
→ You can take a Privacy Checkup and Choose the Setting that are right for you:

- Automatically delete Web and App Activity.
- Automatically delete Location History
- Automatically delete Youtube History.
- Make a plan for your account
- Review Setting for face grouping.
- Check third party access
- Review your ad Setting

(B) Check out for google Safety tips.

Strengthen your account safety/security:

- Taking the Security Checkup
- Creating Strong password.
- Using unique password for every account
- Keep track of multiple passwords
- Defend against hackes with 2-Step Verification
- Log to your Google Account.
- Goto help Option where you can find tips related to your google account.
- following are the option comes under in the help:

1). Help with Common issues like Control and recovers of data

2) Guiding steps for adding privacy, account protection and finding your device

3) Discuss your problems related to your google account with other people who use the Save Service as you

4). You Can report your issues and get Solution for that

5) You Can also give feedback to your google Serice

(c) Control what others see about you across Google Services

(1) Go to your Google account
(2) On the left, click Personal info.
(3) Under "choose what others see," click Go to About me
(4) Change your info:

→ Add: for each category you want to add info to click + Add

→ Edit : click the info you'd like to change and then Click Edit

→ Remove : Click the info you'd like to remove and then click Remove.

(5) Follow the on-screen steps.

Choose what info to show

Your name and profile picture can be viewed by other people who use Google Services including when you communicate or share content.

Tip : for other info that you add, you can choose if it's private or visible to anyone.

(1) Go to your Google Account.
(2) On the left, click Personal info.
(3) Under Choose what other see", click Go the About me.
(4) Below a type of info, you can choose who currently sees your info.

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Q4 ~~Write a c pro~~

Write a C program to implement OTP for encryption and decryption.

Ans)

```
#include<stdio.h>
#include<ctype.h>
#include<string.h>

int main()
{
 char plantxt[100], otp[100];
 printf("enter plan txt\n");
 fflush(stdin);
 fgets(plantxt, sizeof(plantxt), stdin);
 Printf("enter otp txt of length %d\n", strlen(plantxt));
 fflush(stdin);
 fgets(otp, size of(otp), stdin);
for(int i=0; i<strlen(plantxt); i++)
{
if(isupper(plantxt[i]))
 {
    otp[i] = toupper(otp[i]);
if(plantxt[i]+(otp[i]-'A')>'Z'){plantxt[i]=
        plantxt[i]+(otp[i]-'A')-26;}
if(plantxt[i]+(otp[i]-'A')<='Z'){plantxt[i]
        +(otp[i]-'A');}}
```

```
}
elseif (islower(plantxt[i]))
{
 otp[i] = tolower(otp[i]))
if (plantext[i] + (otp[i] - 'a') > 'z')
 { plantxt[i] = plantxt[i] + (otp[i] - 'a') - 26;
 }
if (plantxt[i] + (otp[i] - 'a') <= 'z')
 {
   Plantxt[i] = plantxt[i] + (otp[i] - 'a');
  }
 else { plantxt[i] = plantxt[i];
      }
 }
 printf (" cypher text \t%.s\n", plantxt);
 return 0;
 }
```

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Q5 Encryption using Ceaser Cipher

```
def encrypt (string);
 Cipher = " "
for char in string;
  if char = = " ";
   Cipher = cipher + char
  if char. isupper ( );
  Cipher = cipher + char (((ord(char) + 3 - 65) %. 26 + 65);
  else:
  Cipher = cipher + char ((ord (char) + 3 - 97) %26
                          + 97);
  return cipher
text = " Attack from North ";
Print (" After encryption : " encrypt (text)).
```

Decryption using Ceaser Cipher

```
def decrypt (string);
 plain = "  "
 for char in string
  if char = ' ';
     plain = plain + char
```

```
lif 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)).
```