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Course → BCA-'A'

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Subject → Information security and cyber laws.

MCQs:-

Ans-1 ⇒ Asymmetric key encryption with sender public

Ans-2 ⇒ spyware.

Ans-3 ⇒ An authentication of an electronic record.

Ans-4 ⇒ Cyber Laws.

Ans-5 ⇒ only on alphanumeric

Ans-6 ⇒ Idea in same title is different.

Ans-7 ⇒ checksum

Ans-8 ⇒ option a and c are right.

Ans-9 ⇒ both b and c.

Ans-10 ⇒ none

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Ans-1⇒

Three security aspects of the google account :-

1. Control what others see about you across google services —

Step 1 → Log in to your google account.

Step 2 → Click on personal info option.

Step 3 → Now, inside this option click on go to About Me.

Step 4 → You have many options to change like your Date of Birth, Gender and many more.

Step 5 → Apply privacy on your personal details.

Step 6 → Privacy applied successfully.

2. Check google privacy policies —

Step 1 → Log to your google account.

Step 2 → Go to google privacy policies and check the policies associated with it.

Step 3 → Following are some google privacy policies:-

1. Privacy reminder from google.
2. Third party sites and access to your account.
3. See, control and delete the information in your google account.
4. Change your privacy settings.
5. Download your data.
6. Make your account more secure.
7. Use google smart Lock.

3. Check for account Recovery —

- Step 1 → Log to your google account
- Step 2 → Go to security option.
- Step 3 → Click on Recovery phone and recovery email one by one.
- Step 4 → First you have to sign in again to your google account for verification.
- Step 5 → Now you can recover your account by adding phone number and email one by one.
- Step 6 → Account Recover successfully.

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Ans-4 ⇒

```
# import Library
import math.random

# function to generate OTP
def generate OTP():

    # Declare a digits variable
    # which stores all digits
    digit = "0123456789"
    OTP = " "

    # length of password can be changed
    # by changing value in range
    for i in range(4):
        OTP += digit [math.floor (random.random()
                                (1*10))]

    return OTP

# Driver code
if __name__ == "__main__":
    print("OTP of 4 digits: ", generate OTP())
```


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Ans-5 =>

Encryption using caesar cipher :-

```
def encrypt(string):
```

```
    cipher = ""
```

```
    for char in string:
```

```
        if char.isupper():  
        if char.isupper():
```

```
            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
```

```
text = "Attack From North"
```

```
print("after encryption: ", encrypt(text))
```


Decryption using caesar 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 = "ATTACK from north"  
print("after decryption:", decrypt(text))
```