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 ~~string~~ character is changed while its position remains unchanged

9) to make even no of letters.

10) total length of word.

Ans: Three Security aspects of google account.

Step1:— Go to security checkup to get personalized security recommendations for your google security including : accounts.

1. add or Update Account recovery options :

Your recovery phone number and email address are powerful security tools.

2. Step verification helps prevents a hacker from getting into your account, even they steal your password.

Step2:— Update your Software

If your browser, os, 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 are using latest version of browser.
Learn how to update google chrome.
Update android devices.
Learn how to check and update your android version.

Update chrome books.
Learn how to update your chromebook's OS.

Step3:— Use Unique strong Password.
make sure to create strong and unique password for each account.

Ans 4:- OTP Generation

```python
import math, random
import random

def generateOTP():
    string = "abcdefghijklmnopqrstuvwxyz0123456789ABCDEF
    GHIJKLMNOPQRSTUVWXYZ"

    OTP = " "
    length = len(string)
    print("OTP Generation")

    for i in range(6):
        OTP = OTP + string[math.floor(random.random()*length)]

    return OTP

if __name__ == "__main__":
    print("OTP | length 6:", generateOTP())
```

Ans 5 :—

encryption

```
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 + char((ord(char)+3-97)%26+97)

    return cipher


text = "Attack from North"
print ("after encryption :", encrypt(text))
```

Decryption

```
def decrypt (string):
    plain = " "
    for char in string :
        if char == ' ' :
            plain = plain + char
        elif char.isupper() :
            plain = plain + char((ord(char)-3-65)%26+65)

        else :
            plain = plain + char((ord(char)-3-97)%26+97)
    return plain
text = " "
print ("after decryption :", decrypt(text))
```