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Subject code :- PBC 601

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Subject Name :- Information Security

(1)

- 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 the character is changed while its position remains unchanged
- 9.) to make even no. of letters
- 10.) total length of word.

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Q1. > _____ (1)

Ans1. > No security checkup :- Check the two-step verification wheather its is on or not make it is always on to make your account more secure. Remove risky access to your data i.e non essential apps which might using your google account

* update your software: If your browser, operating, or apps are out-of-date, the software might not be safe from hackers. Keep your software updated to help your account

* Use unique, strong passwords :- 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.

Viray

* Remove app & browser extension you don't need
As more apps are installed on a device, it can become more vulnerable. Install only essential apps and browser extensions on devices that have access to sensitive information. Avoid installing unknown app.

* Protect against suspicious message & content
Hackers can use emails, text message, phone calls, and web pages to pretend to be institutions, family members, or colleagues.

→ Avoid suspicious requests

→ Avoid suspicious emails

→ Avoid suspicious web pages

Q2.) ————— ①

Ans-1) Web browsers are used so frequently, it is vital to configure them securely.

Let's take the example of Google Chrome how can you protect your browser.

* Task manager

Chrome has its own Task Manager that shows you how memory and CPU usage each tab and plug-in is using. You can open it by clicking Shift + Esc from within Chrome.

* One box for search, address, and history
Instead of having separate input boxes for the search bar and address bar, Google has united the two in Chrome. Google also added history to the equation.

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A upgrade tabs

In chrome you can drag a tab into its own window, and drag it back to the main window. This is called "Dynamic Tabs". Also by default the "New Tab" page in chrome features a page that shows thumbnails of your most visited websites, a list of your recent bookmarks, and a search box that allows you to search your history.

Q5.)

①

Encryption using Caesar 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 + char ((ord(char) + 3 - 97) % 26 + 97)
```

```
    return cipher
```

```
text = "Attack from North"
```

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

decryption Caesar cipher

```
def decrypt (string):
```

```
    plain = ""
```

```
    for char in string:
```

```
        if char == ' ':
```

```
            plain = plain + char
```

```
        elif char.isupper():
```

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②

$plain = plain + chr(ord(char) - 3 - 65 / 1.26 + 63)$

else:

$plain = plain + chr(ord(char) - 3 - 97 / 1.26 + 97)$

return plain

text = " "

print ("after decryption", decrypt(text))

Binary