# I. Choose the right answer. [5]

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Server** | **Cipher text** | **Information** | **Hacker** | **Sharing** | **Key** |

1. Network failure may prevent the police officer from \_\_\_\_\_\_\_\_\_ information from \_\_\_\_\_\_\_\_\_\_. /1
2. An encryption \_\_\_\_\_\_\_\_\_\_\_\_\_\_is coded.is the secret that explains how a message. /1
3. Encryption helps to safely exchange data between web \_\_\_\_\_\_\_and browser. /1
4. It works by replacing each plain text letter with a new letter and one of the oldest method of encryption is known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_ . /1
5. \_\_\_\_\_\_\_\_\_\_ often steal personal information for financial gain. /1

# II. State whether the statement is true or false. [5]

6. The Caesar cipher can be used to encrypt messages.

7. Encrypted data is commonly referred to as plain text.

8. Encryption is used to ensure that emails sent over a network are protected from unauthorised persons.

9. The Caesar cipher is also known as a substitution cipher.

10.Piegon cipher does not involve replacing the letter with the symbols.

# IV. Answer the following. [10]

10. Sameer is working as a doctor in a Hamad hospital, he keeps a track the other doctor details and patience details via online. If the network fails then what are the effects the doctor will face? /2

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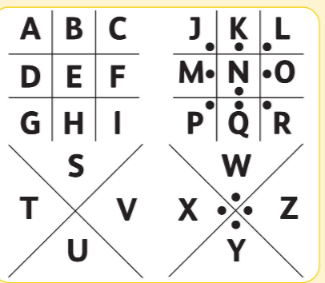
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11.Shalini is working in an IT company, she needs to send a secrete message via email to her manager related to the work. Can you help her to choose the between the Caesar and pigeon cipher text techniques?

Differentiate between the Caesar and pigeon encryption. /3

|  |  |
| --- | --- |
| **Caesar Cipher Text** | **Pigeon Cipher Text** |
|  |  |
|  |  |
|  |  |

12. Encrypt and decrypt the letter/sentences/words with the pigeon encryption techniques. /3



a) Which pigeon symbol would be used to represent the following letters/words.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| HI | C | K | Z | O | TNG |
|  |  |  |  |  |  |

b) Decode the following; /2

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| I |  | L | O | V | E |  | Q | A | T | A | R |
|  |  |  |  |  |  |  |  |  |  |  |  |

Use -Key 4



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