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Subject : Information Security And Cyber
laws

Course : BCA (B) VI Sem

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Exam type : Regular (Practical Exam)

Q3 def generateKey(string, Key):

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Key = list(Key)

if len(string) == len(Key):
 return(Key)

else:

for i in range(len(string) - len(Key)):

Key.append(Key[i + len(Key)])

return(" ".join(Key))

def cipherText(string, Key):

cipher_text = []

for i in range(len(string)):

x = (ord(string[i]) + ord(Key[i])) % 26

x += ord('A')

cipher_text.append(chr(x))

return(" ".join(cipher_text))

def originalText(cipher_text, Key):

orig_text = []

for i in range(len(cipher_text)):

x = (ord(cipher_text[i]) - ord(Key[i]) + 26) % 26

x += ord('A')

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②

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orig_text.append(chr(x))  
return " ".join(orig_text)
```

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if __name__ == "__main__":  
    string = "Cryptography"  
    keyword = "Monarchy"  
    key = generateKey(string, keyword)  
    cipher_text = cipherText(string, key)  
    print("Cipher text:", cipher_text)  
    print("Original/Decrypted Text:", originalText  
          (cipher_text, key))
```