Rn 56

END TERM PRACTICAL EXAMINATION

Name	Vishal Singh
Father's Name	Girdhar Singh
University Roll no	11211171
Course	BCA
Semester	6
Paper Name	Information Security & Cyber Laws (Practical)
Paper Code	PBC-601
Type of Paper	Regular
Date	15/06/21

MCQ

1. Asymmetric key encryption with senders public key

2. Spyware

3. an authentication of an electronic record

4. Cyber laws

5. Only on alphanumeric data

6. Idea is same, Title is different

7. Checksum

8. option (a) & (c) are correct

9. both (b) and (c)

10. none

Vishal

Rn 56

END TERM PRACTICAL EXAMINATION

(3)

```
def generateKey (string, key)
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[.]) + ord (key[i])) %. 26
 x+ = ord('A')
 cipher_text. append (chr(x))
return (" ".join(cipher_text ))
def original Text (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')
 orig_text . append(chr(x))
```

Vishal

END TERM PRACTICAL EXAMINATION

```
    return (" ".join (orig_text))
if __name__ == "__main__":
    string = "Cryptography"
    keyword = "Monarchy":
    key = generatekey (string, keyword)
    cipher_text = cipherText (string, key)
    print ("Ciphertext :", cipher_text)
    print ("Original / Decrypted Text :")
     OriginalText (cipher_text, key1)
```

Vishal

Rn 56

END TERM PRACTICAL EXAMINATION

(5)

```
def encrypt (text, s):
result = ""
for i in range (len(text)):
char = text[i]
if (char.isupper()):
result += chr((ord(char)+s-65)%.26+65)
else
result += chr((ord(char)+s-97)%.26+97)
return result
text = "Attack from North"
s= 4
print "Text:" + text
print "Shift Key:" + str(s)
print "Cipher :" + encrypt(text,s)
```

Vishal

(4) WAP to implement OTP

```
import math, random

def generate OTP():
 digits = "0123456789"
 OTP = ""
 for i in range(4):
 OTP += digits[math.floor(random.random() * 10)]
 return OTP

 if __name__ == "__main__":
 print ("OTP of 4digits :", generateOTP())
```

Vishal