NAME = PRADEEP GUSAIN

ROLL NO = 1121103 (22)

Section = B

Q=5 = (5) Ans:

```
def encryption (plain_text, key):
    encrypted = ""
    for c in range (len(plaintext)):
        if (c.isupper()):
            c.index = ord(c) - ord('A')
            c.shifted = (c.index + key) % 26 + ord('A')
            c.new = chr(c.shifted)
            encrypted += c.new
        else: c.isdigit():
            c.new = (int(c) + key) % 10
            encrypted += str(c.new)
        else:
            encrypted += c
    return encrypted
def decryption (ciphertext, key):
    decrypted = ""
    for c in ciphertext:
        if c.isupper():
            c.index = ord(c) - ord('A')
            c_og.pos = (c.index - key) % 26 + ord('A')
```

Pradeep

```
C_OL = Chr (C_og_Pos)
    decrypted += C_og
elif c.islower():
        C.index = ord (al_ord ('a')
        Cog_Pos = (C.index-key) % 26 + ord ('a')
        C_Og = Chr (C_Og_Pos)
        decrypted += C_og
elif c.isdigit():
        C.Og = (int(c)-(key)) % 10
        decrypted = str(C.Og)
else:
        decrypted += C
return decrypted
Plain_text = "Attack from North"
Ciphertext = Encryption (Plain_text, 4)
Print ("plain text msg: \n", Plain_text)
Print ("Encrypted cypher text: \n", Ciphertext)
decrypted_msg = decryption (Ciphertext, 4)
Print ("The decryption msg is: \n", decryption)
```

Pradip