**Q.No. 20 Write a high-level code for the following ciphertext was generated using a simple substitution algorithm.**

**53‡‡†305))6\*;4826)4‡.)4‡);806\*;48†8¶60))85;;]8\*;:‡8†83 (88)5†;46(;88\*96\*?;8)‡(;485);5†2:‡(;4956\*2(5—4)8¶8\***

**;4069285);)6†8)4‡‡;1(‡9;48081;8:8‡1;48†85;4)485†528806\*81 (‡9;48;(88;4(‡?34;48)4‡;161;:188;‡?;**

**Decrypt this message.**

**CODE :**

**ciphertext = "53‡‡†305))6\*;4826)4‡.)4‡);806\*;48†8¶60))85;;]8\*;:‡8†83 (88)5†;46(;88\*96\*?;8)‡(;485);5†2:‡(;4956\*2(5—4)8¶8\*;4069285);)6†8)4‡‡;1(‡9;48081;8:8‡1;48†85;4)485†528806\*81 (‡9;48;(88;4(‡?34;48)4‡;161;:188;‡?"**

**# Define the decryption key as a dictionary**

**key = {**

**'†': 'e', '‡': 't', '¶': 'a', '—': 'o', ';': 'i', ')': 'n', '\*': 's', '(': 'h',**

**':': 'r', '8': 'd', '4': 'l', '5': 'u', '6': 'c', '0': 'm', '3': 'g', '9': 'f',**

**'2': 'y', '[': 'p', ']': 'b', '?': 'v', '1': 'w', '—': 'k', '—': 'x', '—': 'j',**

**'—': 'q', '—': 'z'**

**}**

**# Decrypt the ciphertext**

**plaintext = ''**

**for char in ciphertext:**

**if char in key:**

**plaintext += key[char]**

**else:**

**plaintext += char**

**# Print the decrypted message**

**print(plaintext)**

**OUTPUT :**

