

## **3.2 Question 2**

Suppose Bob uses the RSA cryptosystem with a very large modulus  $n$  for which the factorization cannot be found in a reasonable amount of time. Suppose Alice sends a message to Bob by representing each alphabetic character as an integer between 0 and 25 ( $A \rightarrow 0, \dots, Z \rightarrow 25$ ) and then encrypting each number separately using RSA with large  $e$  and large  $n$ .

**3.2.A Is this method secure?**

**3.2.B If not, describe the most efficient attack against this encryption method.**