1. The following is an English sentence encrypted by means of a general substitution cipher (with spaces eliminated). Using frequency analysis, decrypt it:

RSZWO RSZCK CSGPS GVRTP CKCSG PRSJP YOGVR NPZND ZWOCH
ZCROC GZWOR SZWOR SZCKS XQNHX VNDWJ YNZWO PCPSG VHOSP
NGBTZ ZWOCG GOHXC DONDZ WOCHS HZPCP CGZWO QNHXV NDDNH
RPCGZ WOYHN KOPPN DVCSX OKZCK SGVCZ PSHLT ROGZB JROZS
YWNH

2. The following is an English sentence encrypted by means of a Vigenere cipher.

IYMEC GOBDO JBSNT VAQLN BIEAO YIOHV XZYZY LEEVI PWOBB
OEIVZ HWUDE AQALL KROCU WSWRY SIUYB MAEIR DEFYY LKODK
OGIKP HPRDE JIPWL LWPHR KYMBM AKNGM RELYD PHRNP ZHBYJ
DPMMW BXEYO ZJMYX NYJDQ WYMEO GPYBC XSXXY HLBEL LEPRD
EGWXL EPMNO CMRTG QQOUP PEDPS LZOJA EYWNM KRFBL PGIMQ
AYTSH MRCKT UMVST VDBOE UEEVR GJGGP IATDR ARABL PGIMQ
DBCFW XDFAW UWPPM RGJGN OETGD MCIIM EXTBE ENBNI CKYPW
NQBLP GIMQO ELICM RCLAC MV

(i) Compute its index of coincidence.

(ii) Use this to estimate the length of the keyword.

(iii) Use Kasiski's method to estimate the length of the keyword.

Find the Vigenere keyword (which need not be an English word) and find the plaintext.